

Figure 1

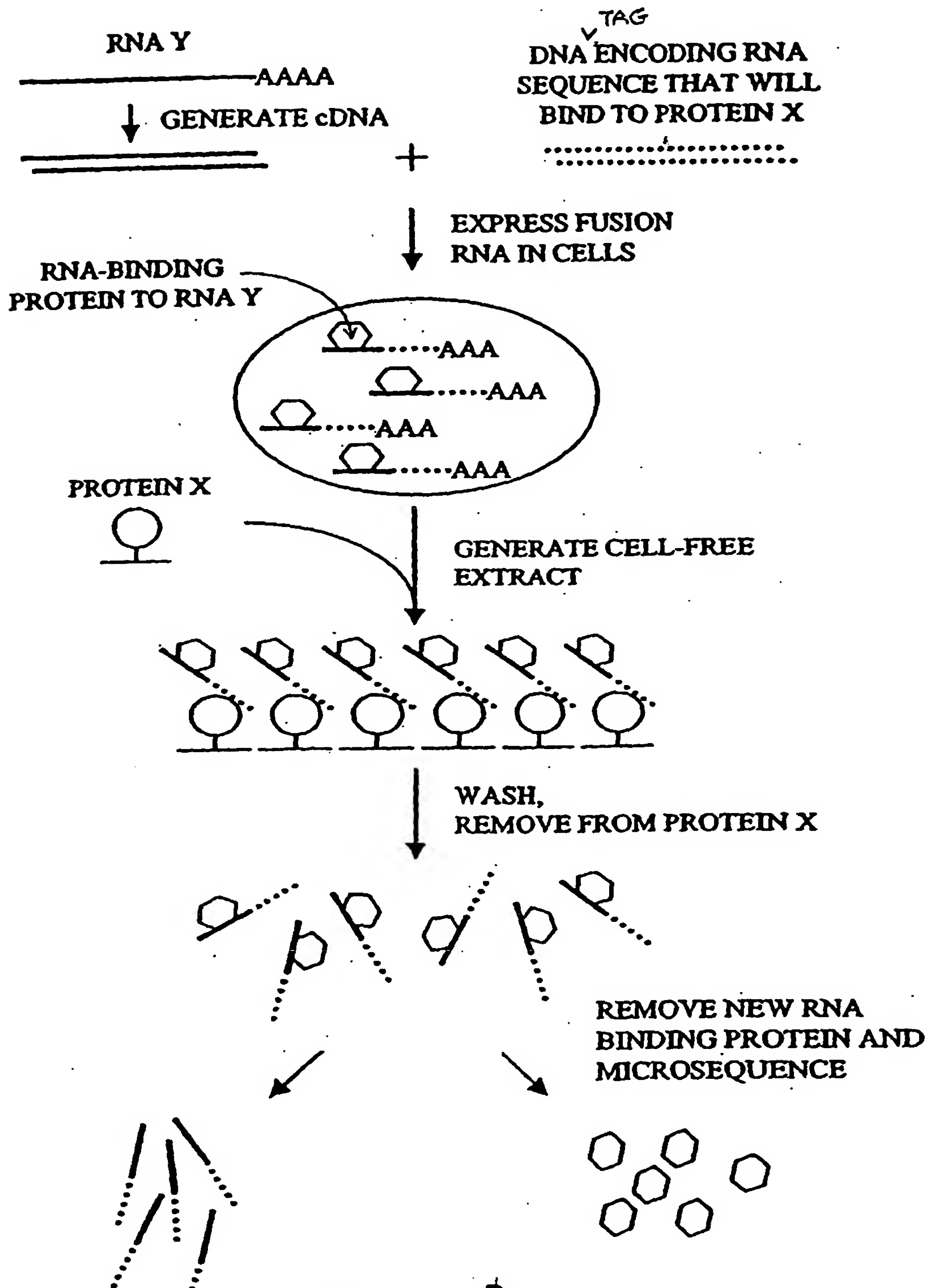


Figure 2

Ribonome

The Ribonome is the entire collection of RNAs and their associated RNA binding proteins (RBPs).

Ribonomic Clusters

RASTTM segregates the ribonome into distinct ribonomic 'clusters' based upon a specific RBP. Genes within each cluster are identified by microarray.

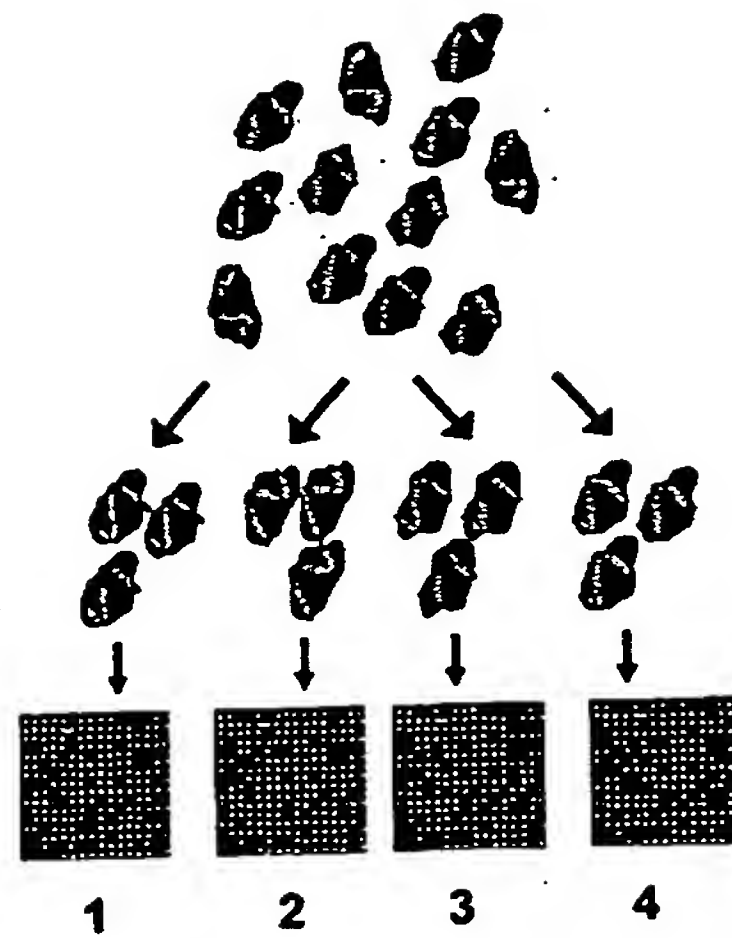


Figure 3

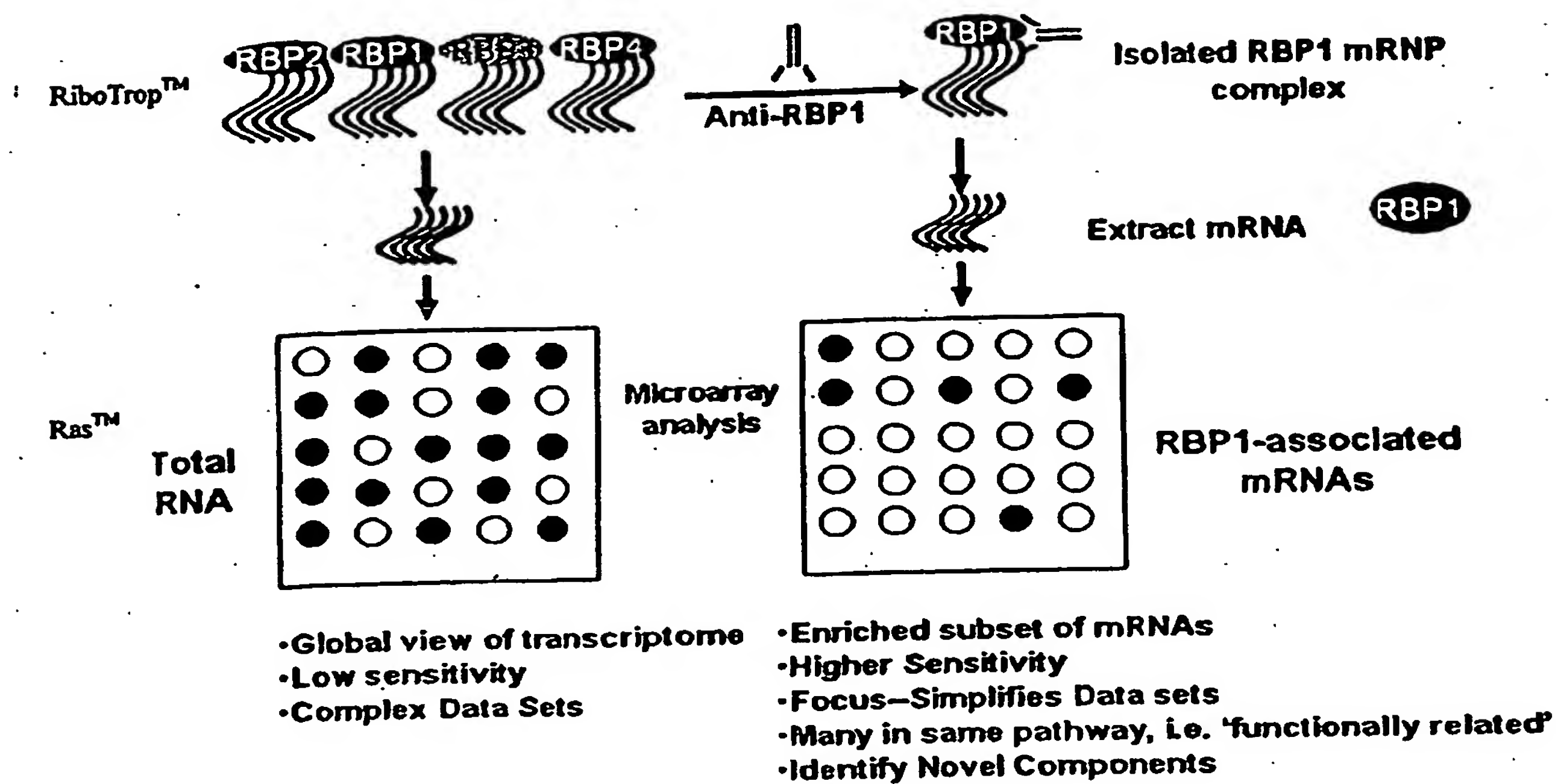


Figure 4

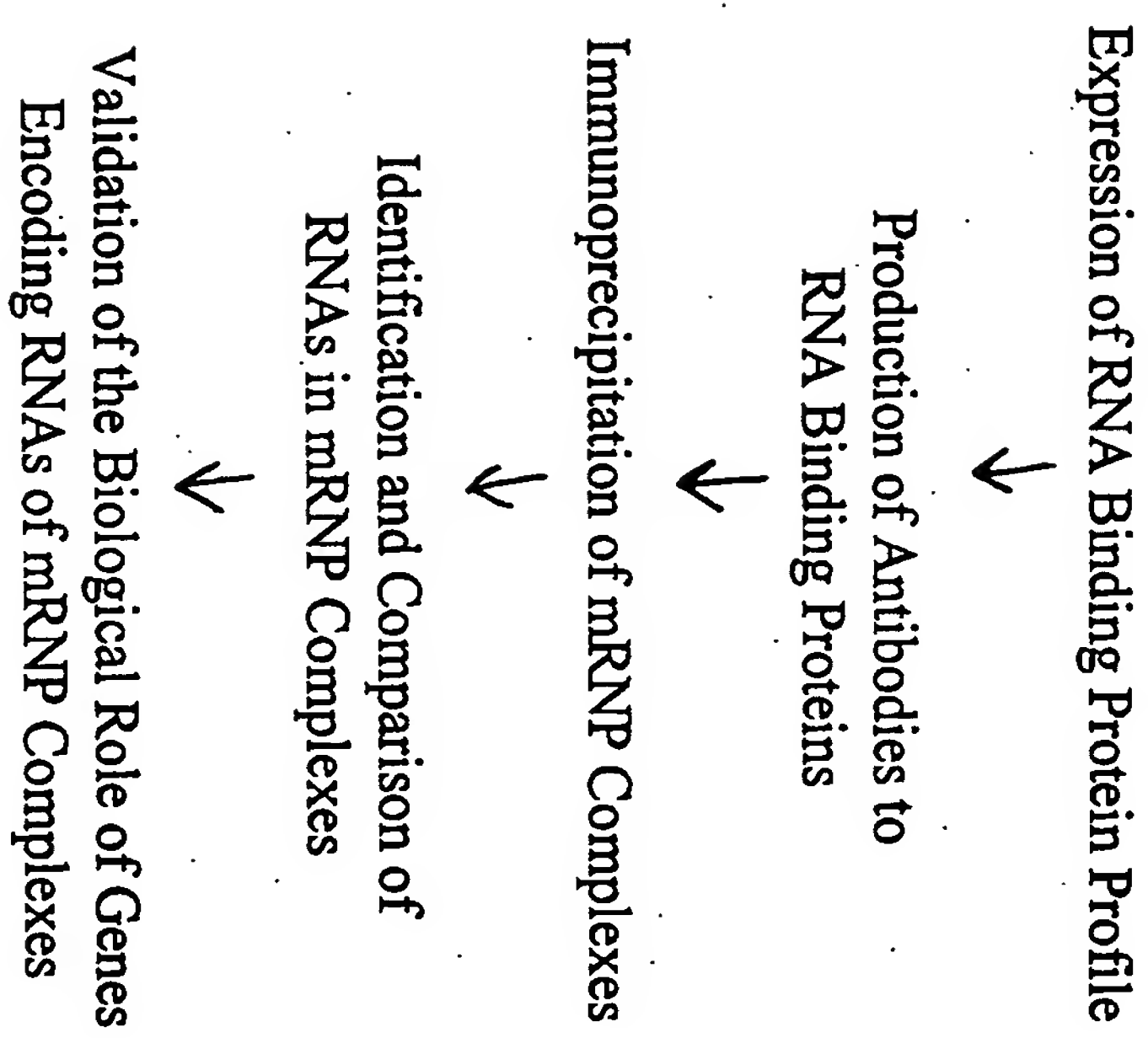


Figure 5

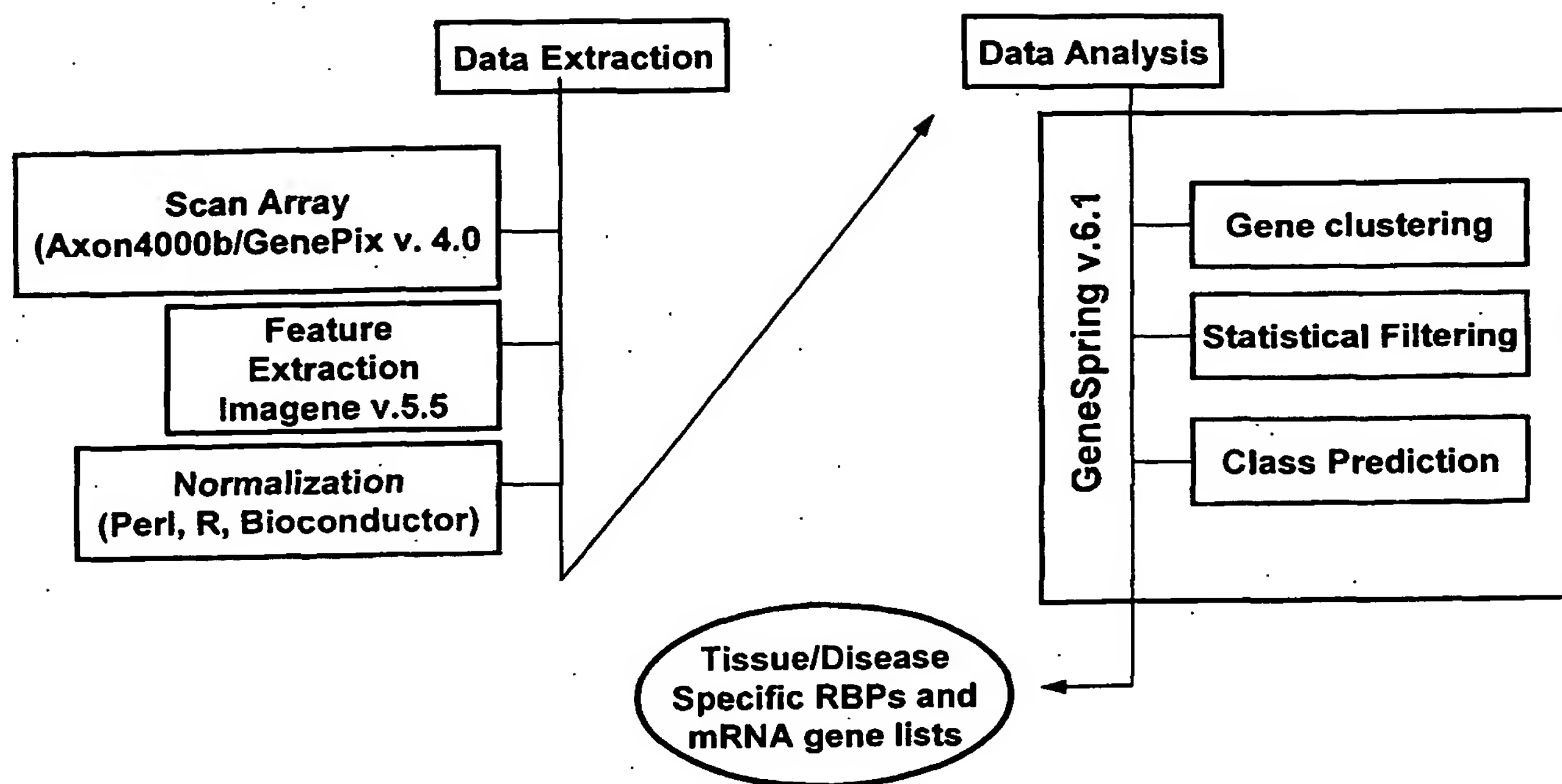


Figure 6:

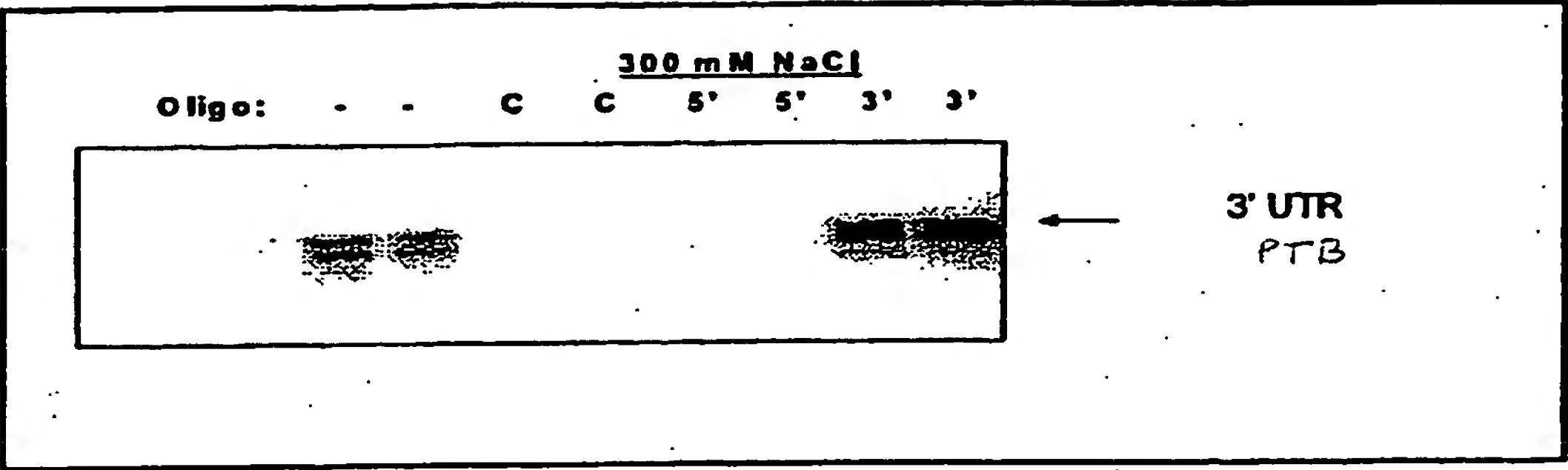
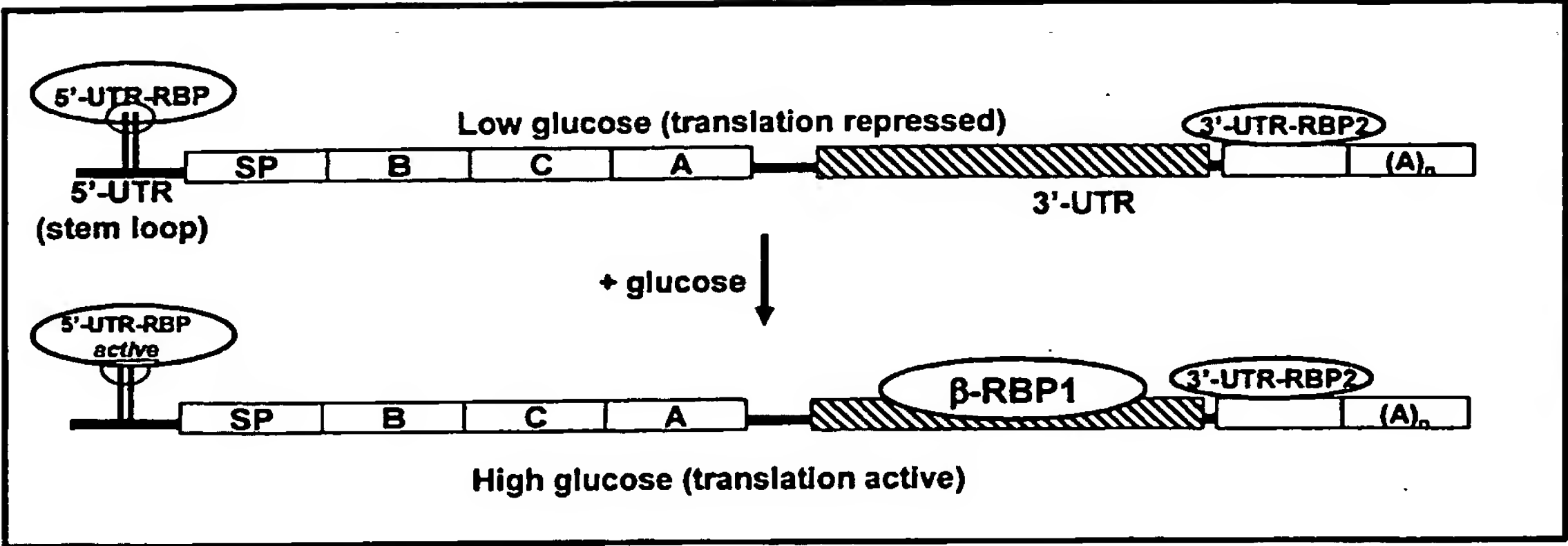


Figure 7



Model for binding of RBPs to preproinsulin mRNA

Figure 8

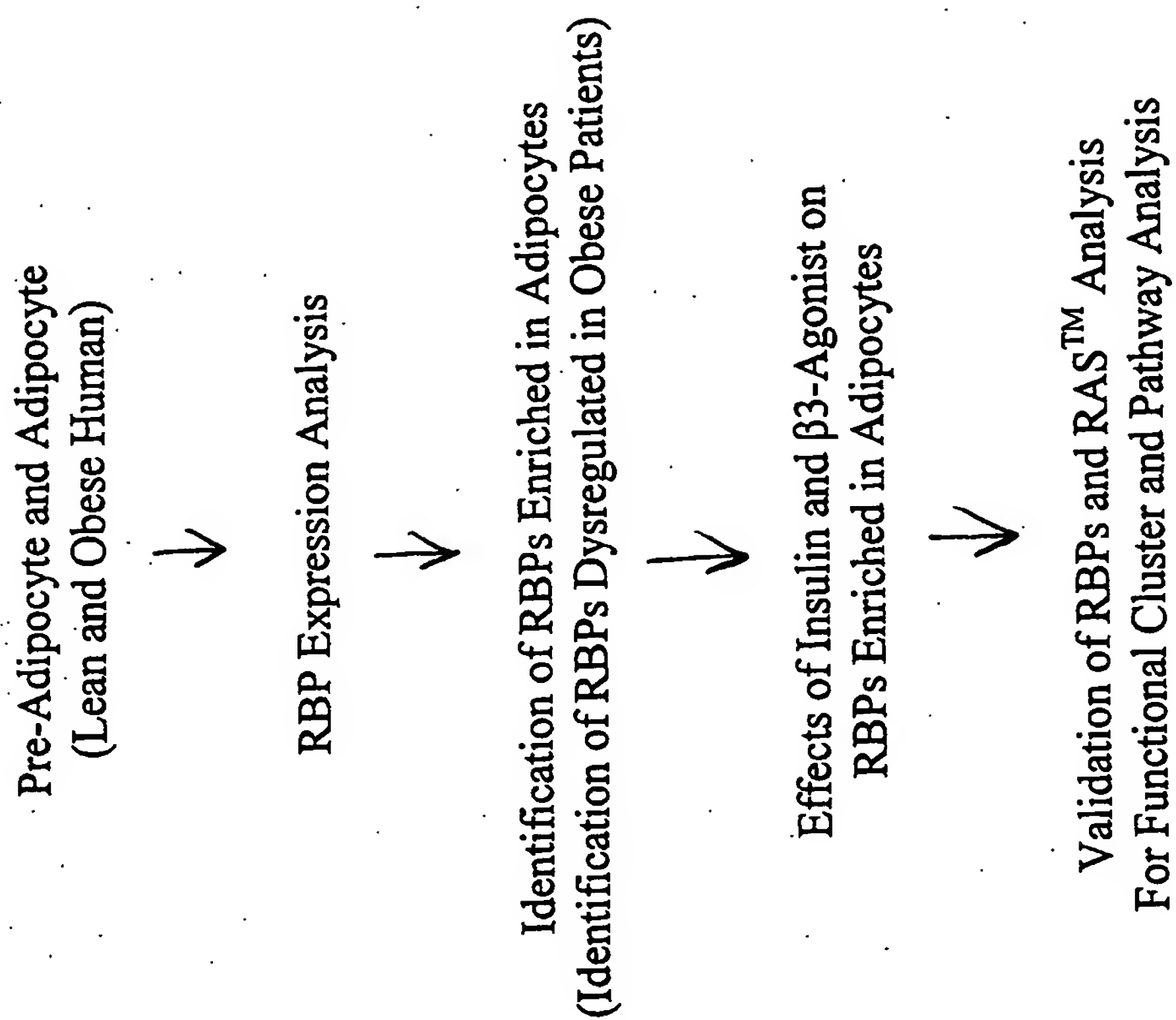


Figure 9

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank		Description
		Accession Number or Manufacturer Sequence Reference		
NM_006413	RPP30	NP_006404		Homo sapiens ribonuclease P/MRP 30kDa subunit (RPP30), mRNA.
NM_020967	NCOA5	NP_066018		Homo sapiens nuclear receptor coactivator 5 (NCOA5), mRNA.
NM_005058	RBMV1A1	NP_005049		Homo sapiens RNA binding motif protein, Y-linked, family 1, member A1 (RBMV1A1), mRNA.
NM_018380	DDX28	NP_060850		Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 28 (DDX28), nuclear gene encoding mitochondrial protein, mRNA.
NM_020158	RRP46	NP_064543		Homo sapiens exosome component Rrp46 (RRP46), mRNA.
XM_062047	LOC120470	XP_062047		Homo sapiens similar to discs, large (Drosophila) homolog 2; chapsyn-110 (LOC120470), mRNA.
NM_003429	ZNF85	NP_003420		Homo sapiens zinc finger protein 85 (HPF4, HTF1) (ZNF85), mRNA.
NM_005437	NCOA4	NP_005428		Homo sapiens nuclear receptor coactivator 4 (NCOA4), mRNA.
NM_000281	PCBD	NP_000272		Homo sapiens 6-pyruvoyl-tetrahydropterin synthase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) (PCBD), mRNA.
NM_022915	MRPL44	NP_075066		Homo sapiens mitochondrial ribosomal protein L44 (MRPL44), nuclear gene encoding mitochondrial protein, mRNA.
XM_068863	LOC134477	XP_068863		Homo sapiens similar to Hypothetical protein CGI-79 (LOC134477), mRNA.
AK000256		BAA91036		Homo sapiens cDNA FLJ20249 fis, clone COLF6621.
NM_002197	ACO1	NP_002188		Homo sapiens aconitase 1, soluble (ACO1), mRNA.
XM_066446	LOC139051	XP_066446		Homo sapiens similar to pol protein (LOC139051), mRNA.
NM_000989	RPL30	NP_000980		Homo sapiens ribosomal protein L30 (RPL30), mRNA.
NM_005119	THRAP3	NP_005110		Homo sapiens thyroid hormone receptor associated protein 3 (THRAP3), mRNA.
AF254411	SR-A1	AAF87552		Homo sapiens ser/arg-rich pre-mRNA splicing factor SR-A1 (SR-A1) gene, complete cds.
NM_006311	NCOR1	NP_006302		Homo sapiens nuclear receptor co-repressor 1 (NCOR1), mRNA.
M58511	IRE-BP2/IRP2	AAA69901		Human iron-responsive element-binding protein/iron regulatory protein 2 (IRE-BP2/IRP2) mRNA, partial cds.

FIGURE 10

Nucleotide GenBank		Protein Product	
Accession Number	Gene Name or	GeneBank	
or Manufacturer	Manufacturer	Accession Number	
Sequence ID	Probe Name	Sequence	Description
XM_065361	LOC129715	XP_065361	Homo sapiens similar to tudor protein (LOC129715), mRNA.
NM_019038	TDRD4	NP_061911	Homo sapiens tudor domain containing 4 (TDRD4), mRNA.
NM_022768	RBM15	NP_073605	Homo sapiens RNA binding motif protein 15 (RBM15), mRNA.
NM_000077	CDKN2A	NP_000068	Homo sapiens cyclin-dependent kinase inhibitor 2A (melanoma, p16, inhibits CDK4) (CDKN2A), transcript variant 1, mRNA.
AB011167	KIAA0595	BAA25521	Homo sapiens mRNA for KIAA0595 protein, partial cds.
NM_022360	FAM12B	NP_071755	Homo sapiens family with sequence similarity 12, member B (epididymal) (FAM12B), mRNA.
XM_091042	LOC161682	XP_091042	Homo sapiens similar to data source:MGD, source key:MGI:107795, evidence:ISS-heterogeneous nuclear ribonucleoprotein C-putative (LOC161682), mRNA.
XM_089062	LOC148866	XP_089062	Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (LOC148866), mRNA.
XM_063247	LOC122648	XP_063247	Homo sapiens similar to putative pancreatic ribonuclease (LOC122648), mRNA.
XM_061549	LOC119579	XP_061549	Homo sapiens LOC119579 (LOC119579), mRNA.
NM_016200	LSM8	NP_057284	Homo sapiens LSM8 homolog, U6 small nuclear RNA associated (S. cerevisiae) (LSM8), mRNA.
NM_017993	FLJ10094	NP_060463	Homo sapiens hypothetical protein FLJ10094 (FLJ10094), mRNA.
XM_061319	LOC119177	XP_061319	Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (LOC119177), mRNA.
NM_007372	DDX42	NP_031398	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 42 (DDX42), transcript variant 1, mRNA.
XM_092489	LOC165271	XP_092489	Homo sapiens similar to heterogeneous nuclear ribonucleoprotein K (LOC165271), mRNA.
NM_000967	RPL3	NP_000958	Homo sapiens ribosomal protein L3 (RPL3), mRNA.
NM_033117	RBM18	NP_149108	Homo sapiens RNA binding motif protein 18 (RBM18), mRNA.
AF285599	STK31	AAK31978	Homo sapiens serine/threonine kinase 31 (STK31) mRNA, complete cds.
NM_007363	NONO	NP_031389	Homo sapiens non-POU domain containing, octamer-binding (NONO), mRNA.
NM_002939	RNH	NP_002930	Homo sapiens ribonuclease/angiogenin inhibitor (RNH), transcript variant 1, mRNA.

Nucleotide GenBank		Protein Product	
Accession Number or Manufacturer	Gene Name or Manufacturer	GeneBank	
Sequence ID	Probe Name	Accession Number or Manufacturer	Description
XM_066901	LOC139801	XP_066901	Homo sapiens LOC139801 (LOC139801), mRNA.
NM_006074	TRIM22	NP_006065	Homo sapiens tripartite motif-containing 22 (TRIM22), mRNA.
XM_070605	LOC137786	XP_070605	Homo sapiens similar to ANTIGEN GOR (LOC137786), mRNA.
XM_090917	LOC161461	XP_090917	Homo sapiens LOC161461 (LOC161461), mRNA.
XM_093219	LOC170270	XP_093219	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A3 homolog 2 (hnRNP A3(B)) (LOC170270), mRNA.
NM_004294	MTRF1	NP_004285	Homo sapiens mitochondrial translational release factor 1 (MTRF1), nuclear gene encoding mitochondrial protein, mRNA.
NM_001605	AARS	NP_001596	Homo sapiens alanyl-tRNA synthetase (AARS), mRNA.
XM_068154	LOC133037	XP_068154	Homo sapiens LOC133037 (LOC133037), mRNA.
XM_094140	LOC166863	XP_094140	Homo sapiens similar to Apobec-1 complementation factor, APOBEC-1 stimulating protein (LOC166863), mRNA.
X99302	pop1	CAA67684	H.sapiens mRNA for Pop1 protein.
XM_066606	LOC139272	XP_066606	Homo sapiens similar to eukaryotic initiation factor 4B (LOC139272), mRNA.

Figure 10

Nucleotide GenBank Accession Number or Manufacturer	Gene Name or Manufacturer Probe Name	Protein Product GeneBank	
		Accession Number or Manufacturer	Sequence
		Reference	Description
XM_070830	LOC138280	XP_070830	Homo sapiens similar to KIAA1138 protein (LOC138280), mRNA.
XM_092489	LOC165271	XP_092489	Homo sapiens similar to heterogeneous nuclear ribonucleoprotein K (LOC165271), mRNA.
NM_006413	RPP30	NP_006404	Homo sapiens ribonuclease P/MRP 30kDa subunit (RPP30), mRNA.
NM_002934	RNASE2	NP_002925	Homo sapiens ribonuclease, RNase A family, 2 (liver, eosinophil-derived neurotoxin) (RNASE2), mRNA.
NM_005058	RBMV1A1	NP_005049	Homo sapiens RNA binding motif protein, Y-linked, family 1, member A1 (RBMV1A1), mRNA.
NM_022360	FAM12B	NP_071755	Homo sapiens family with sequence similarity 12, member B (epididymal) (FAM12B), mRNA.
XM_065361	LOC129715	XP_065361	Homo sapiens similar to tudor protein (LOC129715), mRNA.
NM_020967	NCOA5	NP_066018	Homo sapiens nuclear receptor coactivator 5 (NCOA5), mRNA.
NM_001024	RPS21	NP_001015	Homo sapiens ribosomal protein S21 (RPS21), mRNA.
NM_006187	OAS3	NP_006178	Homo sapiens 2'-5'-oligoadenylate synthetase 3, 100kDa (OAS3), mRNA.
NM_031994	RNF17	NP_114383	Homo sapiens ring finger protein 17 (RNF17), transcript variant short, mRNA.
XM_060358	LOC127164	XP_060358	Homo sapiens similar to TAR DNA binding protein (LOC127164), mRNA.
NM_002534	OAS1	NP_002525	Homo sapiens 2'-5'-oligoadenylate synthetase 1, 40/46kDa (OAS1), transcript variant E16, mRNA.
NM_018380	DDX28	NP_060850	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 28 (DDX28), nuclear gene encoding mitochondrial protein, mRNA.

Figure 11

Nucleotide		Protein Product	
GenBank	Accession	GeneBank	Accession
Number or	Manufacturer	Number or	Manufacturer
Manufacturer	Sequence	Manufacturer	Sequence
Sequence ID	Probe Name	Sequence	Reference
NM_025134	FLJ12178	NP_079410	Homo sapiens hypothetical protein FLJ12178 (FLJ12178), mRNA.
XM_065361	LOC129715	XP_065361	Homo sapiens similar to tudor protein (LOC129715), mRNA.
NM_004768	SFRS11	NP_004759	Homo sapiens splicing factor, arginine/serine-rich 11 (SFRS11), mRNA.
XM_066446	LOC139051	XP_068446	Homo sapiens similar to pol protein (LOC139051), mRNA.
NM_004592	SFRS8	NP_004583	Homo sapiens splicing factor, arginine/serine-rich 8 (suppressor-of-white-apricot homolog, Drosophila) (SFRS8), transcript variant 2A, mRNA.
XM_069688	LOC136068	XP_069688	Homo sapiens LOC136068 (LOC136068), mRNA.
NM_022830	FLJ22347	NP_073741	Homo sapiens hypothetical protein FLJ22347 (FLJ22347), mRNA.
NM_013235	RNASE3L	NP_037367	Homo sapiens nuclear RNase III Drosha (RNASE3L), mRNA.
NM_003758	EIF3S1	NP_003749	Homo sapiens eukaryotic translation initiation factor 3, subunit 1 alpha, 35kDa (EIF3S1), mRNA.
NM_005381	NCL	NP_005372	Homo sapiens nucleolin (NCL), mRNA.
NM_001145	ANG	NP_001136	Homo sapiens angiogenin, ribonuclease, RNase A family, 5 (ANG), mRNA.
XM_067085	LOC140121	XP_067085	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein G (hnRNP G) (RNA binding motif protein, X chromosome) (LOC140121), mRNA.
XM_012968	LOC151921	XP_012968	Homo sapiens similar to chromosome 20 open reading frame 14; putative mitochondrial outer membrane protein import receptor; similar to yeast pre-mRNA splicing factors, Prp1/Zer and Prp6 (LOC151921), mRNA.
NM_006170	NOL1	NP_006161	Homo sapiens nucleolar protein 1, 120kDa (NOL1), mRNA.
NM_005617	RPS14	NP_005608	Homo sapiens ribosomal protein S14 (RPS14), mRNA.

Figure 12

Nucleotide		Protein Product	
GeneBank	Accession	GeneBank	Accession
Number or	Manufacturer	Number or	Manufacturer
Sequence ID	Probe Name	Sequence	Reference
NM_006546	IMP-1	NP_006537	Homo sapiens IGF-II mRNA-binding protein 1 (IMP-1), mRNA.
NM_004689	MTA1	NP_004680	Homo sapiens metastasis associated 1 (MTA1), mRNA.
NM_020143	LOC56902	NP_064528	Homo sapiens putative 28 kDa protein (LOC56902), mRNA.
NM_003096	SNRPG	NP_003087	Homo sapiens small nuclear ribonucleoprotein polypeptide G (SNRPG), mRNA.
NM_000947	PRIM2A	NP_000938	Homo sapiens primase, polypeptide 2A, 58kDa (PRIM2A), mRNA.
NM_006312	NCOR2	NP_006303	Homo sapiens nuclear receptor co-repressor 2 (NCOR2), mRNA.

Figure 12

Protein Product			
Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	GeneBank Accession Number or Manufacturer Sequence Reference	Description
NM_006312	NCOR2	NP_006303	Homo sapiens nuclear receptor co-repressor 2 (NCOR2), mRNA.
NM_006546	IMP-1	NP_006537	Homo sapiens IGF-II mRNA-binding protein 1 (IMP-1), mRNA.
NM_020143	LOC56902	NP_064528	Homo sapiens putative 28 kDa protein (LOC56902), mRNA.
XM_047499	LOC149603	XP_047499	Homo sapiens hypothetical protein LOC149603 (LOC149603), mRNA.
NM_018415	TRERF1	NP_060885	Homo sapiens transcriptional regulating factor 1 (TRERF1), transcript variant 3, mRNA.
NM_000947	PRIM2A	NP_000938	Homo sapiens primase, polypeptide 2A, 58kDa (PRIM2A), mRNA.
NM_013264	DDX25	NP_037396	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 25 (DDX25), mRNA.
XM_095071	CAGE	XP_095071	Homo sapiens cancer-associated gene (CAGE), mRNA.
U23028		AAC50646	Human eukaryotic initiation factor 2B-epsilon mRNA, partial cds.
NM_015891	CDC40	NP_056975	Homo sapiens cell division cycle 40 homolog (yeast) (CDC40), mRNA.
NM_015453	DKFZP434F091	NP_056268	Homo sapiens DKFZP434F091 protein (DKFZP434F091), mRNA.
NM_030794	TDRD3	NP_110421	Homo sapiens tudor domain containing 3 (TDRD3), mRNA.
AF049523	HYP A	AAC27501	Homo sapiens huntingtin-interacting protein HYP A/FBP11 (HYP A), partial cds.
XM_088868	LOC163412	XP_088868	Homo sapiens LOC163412 (LOC163412), mRNA.
NM_033030	BOLL	NP_149019	Homo sapiens bol, boule-like (Drosophila) (BOLL), transcript variant 2, mRNA.
NM_022915	MRPL44	NP_075066	Homo sapiens mitochondrial ribosomal protein L44 (MRPL44), nuclear gene encoding mitochondrial protein mRNA.
XM_087251	FLJ00166	XP_087251	Homo sapiens FLJ00166 protein (FLJ00166), mRNA.
NM_003096	SNRPG	NP_003087	Homo sapiens small nuclear ribonucleoprotein polypeptide G (SNRPG), mRNA.
NM_004937	CTNS	NP_004928	Homo sapiens cystinosis, nephropathic (CTNS), mRNA.
NM_004689	MTA1	NP_004680	Homo sapiens metastasis associated 1 (MTA1), mRNA.
AF026126	HNRPD	AAC23476	Homo sapiens heterogeneous nuclear ribonucleoprotein D (HNRPD) gene, complete cds.
NM_002502	NFKB2	NP_002493	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100) (NFKB2), mRNA.
AF254411	SR-A1	AAF87552	Homo sapiens ser/arg-rich pre-mRNA splicing factor SR-A1 (SR-A1) gene, complete cds.

Figure 13

Nucleotide		Protein Product			Description
GenBank	GeneBank	GeneBank	Accession	Number or	
Accession	Accession	Accession	Accession	Accession	
Number or	Number or	Number or	Number or	Number or	
Manufacturer	Manufacturer	Manufacturer	Manufacturer	Manufacturer	
Sequence ID	Sequence ID	Sequence ID	Sequence ID	Sequence ID	
XM_064989	LOC126205	XP_064989		Homo sapiens similar to PYRIN-containing APAF1-like protein 7; PYRIN-containing APAF1-like protein mRNA; monarch 1 [Homo sapiens] (LOC126205), mRNA.	
XM_070263	LOC137165	XP_070263		Homo sapiens similar to ribosomal protein L3; 60S ribosomal protein L3; HIV-1 TAR RNA-binding protein B (LOC137165), mRNA.	
NM_006388	HTATIP	NP_006379		Homo sapiens HIV-1 Tat interactive protein, 60kDa (HTATIP), transcript variant 2, mRNA.	
NM_006209	ENPP2	NP_006200		Homo sapiens ectonucleotide pyrophosphatase/phosphodiesterase 2 (autotaxin) (ENPP2), mRNA.	
BC012090		AAH12090		Homo sapiens, Similar to heterogeneous nuclear ribonucleoprotein A3, clone MGC:20045 IMAGE:4661041 mRNA, complete cds.	
NM_001019	RPS15A	NP_001010		Homo sapiens ribosomal protein S15a (RPS15A), mRNA.	
NM_021133	RNASEL	NP_066956		Homo sapiens ribonuclease L (2',5'-oligoadenylate synthetase-dependent) (RNASEL), mRNA.	
NM_013235	RNASE3L	NP_037367		Homo sapiens nuclear RNase III Drosha (RNASE3L), mRNA.	
NM_015235	CSTF2T	NP_056050		Homo sapiens cleavage stimulation factor, 3' pre-RNA, subunit 2, 64kDa, tau variant (CSTF2T), mRNA.	
NM_004094	EIF2S1	NP_004085		Homo sapiens eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa (EIF2S1), mRNA.	
NM_006163	NFE2	NP_006154		Homo sapiens nuclear factor (erythroid-derived 2), 45kDa (NFE2), mRNA.	
NM_014003	DHX38	NP_054722		Homo sapiens DEAH (Asp-Glu-Ala-His) box polypeptide 38 (DHX38), mRNA.	
NM_006789	APOBEC2	NP_006780		Homo sapiens apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 2 (APOBEC2), mRNA.	
NM_014285	RRP4	NP_055100		Homo sapiens homolog of Yeast RRP4 (ribosomal RNA processing 4), 3'-5'-exoribonuclease (RRP4), mRNA.	
NM_004175	SNRPD3	NP_004166		Homo sapiens small nuclear ribonucleoprotein D3 polypeptide 18kDa (SNRPD3), mRNA.	
AL117473	DKFZp727A071	CAB55948		Homo sapiens mRNA; cDNA DKFZp727A071 (from clone DKFZp727A071); partial cds.	
XM_085059	LOC145223	XP_085059		Homo sapiens similar to Splicing factor 3B subunit 4 (Spliceosome associated protein 49) (SAP 49) (SF3b5 (Pre-mRNA splicing factor SF3b 49 kDa subunit) (LOC145223), mRNA.	

Figure 13

Nucleotide		Protein Product		Description	
GenBank	Accession	Gene Name or Manufacturer	GeneBank Accession Number or Manufacturer	Sequence Reference	
NM_020158		RRP46		NP_064543	Homo sapiens exosome component Rtp46 (RRP46), mRNA.
NM_016024		CGI-79		NP_057108	Homo sapiens CGI-79 protein (CGI-79), mRNA.
XM_065361		LOC129715		XP_065361	Homo sapiens similar to tudor protein (LOC129715), mRNA.
XM_068863		LOC134477		XP_068863	Homo sapiens similar to Hypothetical protein CGI-79 (LOC134477), mRNA.
NM_006527		SLBP		NP_006518	Homo sapiens stem-loop (histone) binding protein (SLBP), mRNA.
NM_024321		MGC10433		NP_077297	Homo sapiens hypothetical protein MGC10433 (MGC10433), mRNA.
NM_003075		SMARCC2		NP_003066	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 2 (SMARCC2), transcript variant 1, mRNA.
NM_016955		SLA/LP		NP_058651	Homo sapiens soluble liver antigen/liver pancreas antigen (SLA/LP), mRNA.
NM_002819		PTBP1		NP_002810	Homo sapiens polypyrimidine tract binding protein 1 (PTBP1), transcript variant 1, mRNA.
NM_001021		RPS17		NP_001012	Homo sapiens ribosomal protein S17 (RPS17), mRNA.
NM_002568		PABPC1		NP_002559	Homo sapiens poly(A) binding protein, cytoplasmic 1 (PABPC1), mRNA.
NM_014871		USP52		NP_055686	Homo sapiens ubiquitin specific protease 52 (USP52), mRNA.
NM_003076		SMARCD1		NP_003067	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1 (SMARCD1), transcript variant 1, mRNA.
NM_006547		IMP-3		NP_006538	Homo sapiens IGF-II mRNA-binding protein 3 (IMP-3), mRNA.
NM_025134		FLJ12178		NP_079410	Homo sapiens hypothetical protein FLJ12178 (FLJ12178), mRNA.
NM_002695		POLR2E		NP_002686	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E, 25kDa (POLR2E), mRNA.
NM_005801		SUI1		NP_005792	Homo sapiens putative translation initiation factor (SUI1), mRNA.
NM_022830		FLJ22347		NP_073741	Homo sapiens hypothetical protein FLJ22347 (FLJ22347), mRNA.
NM_012245		SNW1		NP_036377	Homo sapiens SKI-interacting protein (SNW1), mRNA.
NM_005617		RPS14		NP_005608	Homo sapiens ribosomal protein S14 (RPS14), mRNA.
NM_021134		MRPL23		NP_066957	Homo sapiens mitochondrial ribosomal protein L23 (MRPL23), nuclear gene encoding mitochondrial protein mRNA.

Figure 13

XM_058421	LOC119832	XP_058421	Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX- DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (LOC119832), mRNA.
NM_006013	RPL10	NP_006004	Homo sapiens ribosomal protein L10 (RPL10), mRNA.

Figure 13

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product	
		GeneBank Accession Number or Manufacturer Sequence Reference	Description
XM_085111	LOC145359		Homo sapiens similar to RIBONUCLEASE PANCREATIC PRECURSOR (RNASE 1) (RNASE A) (LOC145359), mRNA
XM_047920	LOC92906		Homo sapiens similar to Unknown (protein for IMAGE:3587716) (LOC92906), mRNA
XM_060628	LOC127722		Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (UNWINDING PROTEIN 1) (UP1) (LOC127722), mRNA
XM_088640	LOC158685		Homo sapiens similar to RNA-binding region (RNP1, RRM) containing 2 (H. sapiens) (LOC158685), mRNA
XM_017931	LOC158201		Homo sapiens similar to RNA binding motif protein, X chromosome (H. sapiens) (LOC158201), mRNA
XM_062047	LOC120470		Homo sapiens similar to discs, large (Drosophila) homolog 2; chapsyn-110 (LOC120470), mRNA
XM_068997	LOC134759		Homo sapiens similar to heterogeneous nuclear ribonucleoprotein L (LOC134759), mRNA
XM_087697	LOC153522		Homo sapiens similar to splicing factor, arginine/serine-rich 11 (LOC153522), mRNA
NM_003191	TARS		Homo sapiens threonyl-tRNA synthetase (TARS), mRNA
XM_061850	LOC120083		Homo sapiens similar to 46kD arginine/serine-rich splicing factor (LOC120083), mRNA
XM_093219	LOC170270		Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A3 HOMOLOG 2 (HNRNP A3(B)) (LOC170270), mRNA
XM_068457	LOC133655		Homo sapiens similar to splicing coactivator subunit SRm300; RNA binding protein; AT-rich element binding factor; serine/arginine repetitive matrix 2 (LOC133655), mRNA
NM_014892	KIAA1116		Homo sapiens KIAA1116 protein (KIAA1116), mRNA
XM_058819	LOC124540		Homo sapiens similar to RNA-binding protein Musashi2-S (LOC124540), mRNA
XM_058653	LOC122651		Homo sapiens similar to RIBONUCLEASE PANCREATIC (RNASE 1) (RNASE A) (LOC122651), mRNA
XM_093626	LOC152108		Homo sapiens similar to ubiquitin A-52 residue ribosomal protein fusion product 1 (LOC152108), mRNA
XM_061002	LOC118523		Homo sapiens similar to SON DNA binding protein; SON DNA-binding protein; SON DNA-binding protein, KIAA1019; NRE-binding protein (H. sapiens) (LOC118523), mRNA
XM_060358	LOC127164		Homo sapiens similar to TAR DNA binding protein (LOC127164), mRNA

Figure 14

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product	
		GeneBank Accession Number or Manufacturer Sequence Reference	Description
XM_063601	LOC123341		Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (UNWINDING PROTEIN 1) (UP1) (LOC123341), mRNA.
XM_059612	LOC132928		Homo sapiens similar to poly(A) binding protein, cytoplasmic 1; poly(A)-binding protein, cytoplasmic 1 (LOC132928), mRNA.
NM_021993	FUSIP1		Homo sapiens FUS interacting protein (serine-arginine rich) 1 (FUSIP1) transcript variant 2, mRNA.
XM_064113	LOC124380		Homo sapiens similar to Hrb27C-P1; RNA-binding protein 7 (LOC124380), mRNA.
XM_098297	LOC153028		Homo sapiens similar to RNA binding protein S1, serine-rich domain (H. sapiens) (LOC153028), mRNA.
XM_062934	LOC122056		Homo sapiens similar to ATP-DEPENDENT RNA HELICASE A (NUCLEAR DNA HELICASE II) (NDH II) (DEAD-BOX PROTEIN 9) (LOC122056), mRNA.
XM_053153	LOC149973		Homo sapiens similar to RNA binding motif protein, X chromosome (H. sapiens) (LOC149973), mRNA.
XM_070603	LOC137784		Homo sapiens similar to ANTIGEN GOR (LOC137784), mRNA.
XM_086419	LOC149092		Homo sapiens similar to pumilio homolog 1 (Drosophila) (H. sapiens) (LOC149092), mRNA.
XM_067918	LOC132583		Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (LOC132583), mRNA.
NM_006450	SPF45		Homo sapiens splicing factor (45kD) (SPF45), mRNA.
NM_004940	DDX7		Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 7 (RNA helicase, 52kD) (DDX7), mRNA.
XM_086011	LOC148027		Homo sapiens similar to bruno-like 5, RNA binding protein (Drosophila); Bruno (Drosophila) -like 5, RNA binding protein CUG-BP and ETR-3 like factor 5; RNA-binding protein BRUNOL-5 (LOC148027), mRNA.
XM_073386	LOC119594		Homo sapiens similar to SPLICING FACTOR U2AF 65 KDA SUBUNIT (U2 AUXILIARY FACTOR 65 KDA SUBUNIT) (U2 SNRNP AUXILIARY FACTOR LARGE SUBUNIT) (U2AF65) (LOC119594), mRNA.
XM_067051	LOC140065		Homo sapiens similar to RNA binding motif protein, Y chromosome, family 1, member A1; RNA binding motif protein 1; RNA binding motif protein 2 (LOC140065), mRNA.
NM_003138	SRPK2		Homo sapiens SFRS protein kinase 2 (SRPK2), mRNA.
XM_092386	LOC165115		Homo sapiens similar to KIAA1841 protein (LOC165115), mRNA.




Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Protein Product		Gene Name or Manufacturer Probe Name	Description
	GeneBank Accession Number or Manufacturer Sequence Reference	Manufacturer Sequence Reference		
XM_062047	LOC120470			Homo sapiens similar to discs, large (Drosophila) homolog 2; chapsyn-110 (LOC120470), mRNA.
XM_092031	LOC163147			Homo sapiens similar to splicing factor 3a, subunit 2, 66kD; Spliceosome protein SAP-62 (LOC163147), mRNA. 
XM_067074	LOC140100			Homo sapiens similar to RNA binding motif protein, Y chromosome, family 1, member A1; RNA binding motif protein 1; RNF binding motif protein 2 (LOC140100), mRNA. 
XM_060102	LOC126635			Homo sapiens similar to splicing factor, arginine/serine-rich 2, interacting protein; SC35-Interacting protein 1 (LOC126635), mRNA. 
XM_001524	LOC151173			Homo sapiens similar to TAR DNA binding protein (H. sapiens) (LOC151173), mRNA.
XM_086792	LOC150152			Homo sapiens similar to SPLICING FACTOR U2AF 35 KD SUBUNIT (U2 AUXILIARY FACTOR 35 KD SUBUNIT) (U2 SNRNP AUXILIARY FACTOR SMALL SUBUNIT) (LOC150152), mRNA.
XM_070605	LOC137786			Homo sapiens similar to ANTIGEN GOR (LOC137786), mRNA.
NM_006842	SF3B2			Homo sapiens splicing factor 3b, subunit 2, 145kD (SF3B2), mRNA.
XM_095899	LOC169732			Homo sapiens similar to EXOSOME COMPLEX EXONUCLEASE RRP4 (RIBOSOMAL RNA PROCESSING PROTEIN 4) (LOC169732), mRNA.
XM_066446	LOC139051			Homo sapiens similar to hypothetical protein (LOC139051), mRNA.
XM_089765	LOC143344			Homo sapiens similar to poly(A) binding protein (LOC143344), mRNA.
XM_089587	LOC159428			Homo sapiens similar to EUKARYOTIC TRANSLATION INITIATION FACTOR 4B (EIF-4B) (LOC159428), mRNA.
XM_092043	LOC163160			Homo sapiens similar to polypyrimidine tract binding protein, isoform b; heterogeneous nuclear ribonucleoprotein polypeptide l; RNA binding protein (LOC163160), mRNA.
XM_091270	LOC161983			Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (LOC161983), mRNA.
XM_067072	LOC140098			Homo sapiens similar to RBM1 (LOC140098), mRNA.
XM_056568	LOC147774			Homo sapiens similar to KH-type splicing regulatory protein (FUSE binding protein 2) (H. sapiens) (LOC147774), mRNA.

Figure 14

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product	
		GeneBank Accession Number or Manufacturer Sequence Reference	Description
XM_091235	LOC161931		Homo sapiens similar to hypothetical protein (LOC161931), mRNA
XM_058943	LOC125925		Homo sapiens similar to R32611_1 (LOC125925), mRNA
XM_058876	LOC124944		Homo sapiens similar to putative (H. sapiens) (LOC124944), mRNA
XM_088975	LOC148683		Homo sapiens similar to pumilio homolog 1 (Drosophila); pumilio (Drosophila) homolog 1 (LOC148683), mRNA
XM_092221	LOC164891		Homo sapiens similar to mRNA for ribosomal protein S9 (LOC164891), mRNA
XM_095591	LOC169242		Homo sapiens similar to putative (LOC169242), mRNA
XM_093336	LOC165631		Homo sapiens similar to KIAA1268 protein (LOC165631), mRNA
XM_065002	LOC126246		Homo sapiens similar to Similar to splicing factor proline/glutamine rich (polypyrimidine tract-binding protein-associated) (H. sapiens) (LOC126246), mRNA
XM_067452	LOC131596		Homo sapiens similar to splicing factor 3a, subunit 2, 66kD; Spliceosome protein SAP-62 (LOC131596), mRNA
XM_062601	LOC121365		Homo sapiens similar to RBM1 (LOC121365), mRNA
XM_068248	LOC133225		Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (H. sapiens) (LOC133225), mRNA
XM_068022	LOC132772		Homo sapiens similar to split ends; polycephalon; yippee interacting protein 1 (LOC132772), mRNA
XM_066901	LOC139801		Homo sapiens similar to splicing factor, arginine/serine-rich 4 (SRp75); similar to splicing factor, arginine/serine-rich 4 (SFRS4) (H. sapiens) (LOC139801), mRNA
XM_067087	LOC140123		Homo sapiens similar to RNA binding protein (LOC140123), mRNA
XM_067844	LOC132430		Homo sapiens similar to poly(A)-binding protein, cytoplasmic 4 (inducible form); inducible poly(A)-binding protein (LOC132430), mRNA
XM_070624	LOC137819		Homo sapiens similar to Rbm (H. sapiens) (LOC137819), mRNA
BC005054		AAH05054	Homo sapiens, clone IMAGE:2822202, mRNA, partial cds.
NM_031994	RNF17	NP_114383	Homo sapiens ring finger protein 17 (RNF17), transcript variant short, mRNA

Nucleotide		Protein Product		Description
GenBank Accession		GeneBank		
Number or Manufacturer		Accession		
Sequence ID	Manufacturer	Sequence	Manufacturer	
		Reference		
HSU87589		AAB63112		Human endogenous retrovirus clone K1.1 polymerase mRNA, partial cds.
XM_085111		XP_085111	LOC145359	Homo sapiens similar to Ribonuclease pancreatic precursor (RNase 1) (RNase A) (LOC145359), mRNA.
NM_024045		NP_076950	DDX50	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 50 (DDX50), mRNA.
NM_001021		NP_001012	RPS17	Homo sapiens ribosomal protein S17 (RPS17), mRNA.
AC004957				Homo sapiens PAC clone RP5-1093O17 from 7, complete sequence.
NM_004792		NP_004783	PPIG	Homo sapiens peptidyl-prolyl isomerase G (cyclophilin G) (PPIG), mRNA.
NM_001011		NP_001002	RPS7	Homo sapiens ribosomal protein S7 (RPS7), mRNA.
XM_047920		XP_047920	LOC92906	Homo sapiens similar to Unknown (protein for IMAGE:3587716) (LOC92906), mRNA.
A088192				oz97g12.x1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1683334 3' similar to TR:Q38800 Q388 COL-O PUTATIVE RNA HELICASE A.; mRNA sequence.
NM_005058		NP_005049	RBMY1A1	Homo sapiens RNA binding motif protein, Y-linked, family 1, member A1 (RBMY1A1), mRNA.
XM_060628		XP_060628	LOC127722	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A1 (Helix-destabilizing protein) (Single-strand binding protein) (hnRNP core protein A1) (HDP-1) (Topoisomerase-inhibitor suppressed) (LOC127722), mRNA.
NM_020967		NP_066018	NCOA5	Homo sapiens nuclear receptor coactivator 5 (NCOA5), mRNA.
NM_006275		NP_006266	SFRS6	Homo sapiens splicing factor, arginine/serine-rich 6 (SFRS6), mRNA.
XM_088640		XP_088640	LOC158685	Homo sapiens similar to bA353C18.3.2 (splicing factor CC1.3, isoform 2 (CC1.4)) (LOC158685), mRNA.
XM_017931		XP_017931	LOC158201	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein G (hnRNP G) (Glycoprotein P43) (LOC158201), mRNA.
NM_005016		NP_005007	PCBP2	Homo sapiens poly(rC) binding protein 2 (PCBP2), transcript variant 1, mRNA.
NM_006713		NP_006704	PC4	Homo sapiens activated RNA polymerase II transcription cofactor 4 (PC4), mRNA.
NM_018427		NP_060897	RRN3	Homo sapiens RNA polymerase I transcription factor RRN3 (RRN3), mRNA.
NM_004960		NP_004951	FUS	Homo sapiens fusion (involved in t(12;16) in malignant liposarcoma) (FUS), mRNA.
AF267533		AAF78955		Homo sapiens CUG-binding protein LYLQ isoform mRNA, complete cds.
XM_062047		XP_062047	LOC120470	Homo sapiens similar to discs, large (Drosophila) homolog 2; chapsyn-110 (LOC120470), mRNA.

Nucleotide GenBank Accession			Protein Product	
Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	GeneBank Accession Number or Manufacturer Sequence Reference	Description	
NM_003797	EED	NP_003788	Homo sapiens embryonic ectoderm development (EED), transcript variant 1, mRNA.	
NM_001025	RPS23	NP_001016	Homo sapiens ribosomal protein S23 (RPS23), mRNA.	
NM_005156	ROD1	NP_005147	Homo sapiens ROD1 regulator of differentiation 1 (S. pombe) (ROD1), mRNA.	
BC001050	NFATC3	AAH01050	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3, transcript variant 1, mRNA. clone MGC:1495 IMAGE:3505967, complete cds.	
NM_000281	PCBD	NP_000272	Homo sapiens 6-pyruvoyl-tetrahydropterin synthase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) (PCBD), mRNA.	
XM_068997	LOC134759	XP_068997	Homo sapiens similar to heterogeneous nuclear ribonucleoprotein L (LOC134759), mRNA.	
NM_005887	DLEU1	NP_005878	Homo sapiens deleted in lymphocytic leukemia, 1 (DLEU1), mRNA.	
AF435977	SON	AAL30810	Homo sapiens negative regulatory element-binding protein (SON) mRNA, complete cds, alternatively spliced.	
NM_001002	RPLP0	NP_000993	Homo sapiens ribosomal protein, large, P0 (RPLP0), transcript variant 1, mRNA.	
NM_000989	RPL30	NP_000980	Homo sapiens ribosomal protein L30 (RPL30), mRNA.	
XM_087697	LOC153522	XP_087697	Homo sapiens similar to splicing factor, arginine/serine-rich 11 (LOC153522), mRNA.	
AC004957			Homo sapiens PAC clone RP5-1093O17 from 7, complete sequence.	
NM_004902	RNPC2	NP_004893	Homo sapiens RNA-binding region (RNPI, RRM) containing 2 (RNPC2), transcript variant 2, mRNA.	
NM_003191	TARS	NP_003182	Homo sapiens threonyl-tRNA synthetase (TARS), mRNA.	
NM_021177	LSM2	NP_067000	Homo sapiens LSM2 homolog, U6 small nuclear RNA associated (S. cerevisiae) (LSM2), mRNA.	
NM_002948	RPL15	NP_002939	Homo sapiens ribosomal protein L15 (RPL15), mRNA.	
XM_061850	LOC120083	XP_061850	Homo sapiens similar to 46kD arginine/serine-rich splicing factor [Homo sapiens] (LOC120083), mRNA.	
NM_004705	PRKRIR	NP_004696	Homo sapiens protein-kinase, interferon-inducible double stranded RNA dependent inhibitor, repressor of (P58 repressor) (PRKRIR), mRNA.	
XM_093219	LOC170270	XP_093219	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A3 homolog 2 (hnRNP A3(B)) (LOC170270), mRNA.	
HSPOP1	pop1	CAA67684	H.sapiens mRNA for Pop1 protein.	
NM_001429	EP300	NP_001420	Homo sapiens E1A binding protein p300 (EP300), mRNA.	

Figure 14

Nucleotide		Protein Product		Gene Name or		Description	
GenBank Accession	Number or	GeneBank	Accession	Manufacturer	Sequence	Reference	
Manufacturer	Sequence	Reference					
Sequence ID	Manufacturer	Probe Name					
NM_014168		HSPC133	NP_054887				Homo sapiens HSPC133 protein (HSPC133), mRNA.
NM_001958		EIF4E	NP_001959				Homo sapiens eukaryotic translation initiation factor 4E (EIF4E), mRNA.
NM_005968		HNRPM	NP_005959				Homo sapiens heterogeneous nuclear ribonucleoprotein M (HNRPM), transcript variant 1, mRNA.
NM_006372		SYNCRIP	NP_006363				Homo sapiens synaptotagmin binding, cytoplasmic RNA interacting protein (SYNCRIP), mRNA.
NM_002136		HNRPA1	NP_002127				Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1), transcript variant 1, mRNA.
NM_006638		RPP40	NP_006629				Homo sapiens ribonuclease P 40kDa subunit (RPP40), mRNA.
NM_004539		NARS	NP_004530				Homo sapiens asparaginyl-tRNA synthetase (NARS), mRNA.
AC004957							Homo sapiens PAC clone RP5-1093O17 from 7, complete sequence.
HS164F3		dJ164F3.1	CAB55879				Human DNA sequence from clone RP1-164F3 on chromosome Xq21.33-23 Contains genes for DFN1 (deafness, X-linked 1 progressive, DDP (X-LINKED DEAFNESS DYSTONIA PROTEIN)), BTK(Bruite agammaglobulinemia tyrosine kinase), RPL44(L44-like ribosomal protein), GLA (galactosidase, alpha) and FTP3 (HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN), ESTs, STSs, GSSs and CpG Islands, complete sequence.
BC016283		ABCE1	AAH16283				Homo sapiens ATP-binding cassette, sub-family E (OABP), member 1, mRNA (cDNA clone MGC:9023 IMAGE:3909151), complete cds.
NM_006392		NOL5A	NP_006383				Homo sapiens nucleolar protein 5A (56kDa with KKE/D repeat) (NOL5A), mRNA.
BC002395		SF3A3	AAH02395				Homo sapiens splicing factor 3a, subunit 3, 60kDa, mRNA (cDNA clone MGC:8445 IMAGE:2821350), complete cds.
NM_003769		SFRS9	NP_003760				Homo sapiens splicing factor, arginine/serine-rich 9 (SFRS9), mRNA.
NM_006743		RBM3	NP_006734				Homo sapiens RNA binding motif protein 3 (RBM3), mRNA.
AF165518		MAGOH	AAF86648				Homo sapiens MAGOH isoform (MAGOH) mRNA, complete cds.
NM_001402		EEF1A1	NP_001393				Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), mRNA.
NM_030594		CPEB1	NP_085097				Homo sapiens cytoplasmic polyadenylation element binding protein 1 (CPEB1), mRNA.
NM_001024		RPS21	NP_001015				Homo sapiens ribosomal protein S21 (RPS21), mRNA.

Figure 14

Nucleotide		Protein Product		
GenBank Accession		Gene Bank Accession		
Number or Manufacturer		Number or Manufacturer		
Manufacturer		Manufacturer		
Sequence ID	Gene Name or Manufacturer	Sequence Reference		Description
NM_003488	AKAP1	NP_003479		Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA.
AF038362	TAF-172	AAC04573		Homo sapiens TBP-associated factor 172 (TAF-172) mRNA, complete cds.
NM_004501	HNRPU	NP_004492		Homo sapiens heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A) (HNRPU), transcript variant 2, mRNA.
NM_004396	DDX5	NP_004387		Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 5 (DDX5), mRNA.
NM_000968	RPL4	NP_000959		Homo sapiens ribosomal protein L4 (RPL4), mRNA.
NM_001028	RPS25	NP_001019		Homo sapiens ribosomal protein S25 (RPS25), mRNA.
NM_007367	RALY	NP_031393		Homo sapiens RNA binding protein (autoantigenic, hnRNP-associated with lethal yellow) (RALY), transcript variant 2, mRNA.
NM_004689	MTA1	NP_004680		Homo sapiens metastasis associated 1 (MTA1), mRNA.
XM_068457	LOC133655	XP_068457		Homo sapiens similar to splicing coactivator subunit SRm300; RNA binding protein; AT-rich element binding factor; serine/arginine repetitive matrix 2 (LOC133655), mRNA.
NM_003754	EIF3S5	NP_003745		Homo sapiens eukaryotic translation initiation factor 3, subunit 5 epsilon, 47kDa (EIF3S5), mRNA.
AC004957				Homo sapiens PAC clone RP5-1093O17 from 7, complete sequence.
AC004957				Homo sapiens PAC clone RP5-1093O17 from 7, complete sequence.
NM_006711	RNPS1	NP_006702		Homo sapiens RNA binding protein S1, serine-rich domain (RNPS1), transcript variant 1, mRNA.
NM_016480	PAIP2	NP_057564		Homo sapiens poly(A) binding protein interacting protein 2 (PAIP2), mRNA.
NM_001014	RPS10	NP_001005		Homo sapiens ribosomal protein S10 (RPS10), mRNA.
AF070668		AAD20974		Homo sapiens 40S ribosomal protein S27 isoform mRNA, complete cds.
NM_006938	SNRPD1	NP_008869		Homo sapiens small nuclear ribonucleoprotein D1 polypeptide 16kDa (SNRPD1), mRNA.
NM_014892	RBM16	NP_055707		Homo sapiens RNA binding motif protein 16 (RBM16), mRNA.
NM_018353	C14orf106	NP_060823		Homo sapiens chromosome 14 open reading frame 106 (C14orf106), mRNA.
NM_006196	PCBP1	NP_006187		Homo sapiens poly(rC) binding protein 1 (PCBP1), mRNA.
XM_058819	MSI2	XP_058819		Homo sapiens musashi homolog 2 (Drosophila) (MSI2), mRNA.

Nucleotide			Protein Product		
GenBank Accession	GeneBank		GeneBank		
Number or Manufacturer	Accssion Number or Manufacturer		Sequence Reference		Description
Sequence ID	Manufacturer Probe Name				
NM_003133	SRP9		NP_003124		Homo sapiens signal recognition particle 9kDa (SRP9), mRNA
NM_001016	RPS12		NP_001007		Homo sapiens ribosomal protein S12 (RPS12), mRNA
NM_004516	ILF3		NP_004507		Homo sapiens interleukin enhancer binding factor 3, 90kDa (ILF3), transcript variant 2, mRNA
XM_058653	LOC122651		XP_058653		Homo sapiens LOC122651 (LOC122651), mRNA
NM_003750	EIF3S10		NP_003741		Homo sapiens eukaryotic translation initiation factor 3, subunit 10 theta, 150/170kDa (EIF3S10), mRNA
AK054960					Homo sapiens cDNA FLJ30398 fis, clone BRACE2008402, highly similar to Homo sapiens steroid receptor RNA activator isoform 3 mRNA
NM_017697	FLJ20171		NP_060167		Homo sapiens hypothetical protein FLJ20171 (FLJ20171), mRNA
NM_000985	RPL17		NP_000976		Homo sapiens ribosomal protein L17 (RPL17), mRNA
HSM801037					Homo sapiens mRNA; cDNA DKFZp434L1935 (from clone DKFZp434L1935)
NM_014060	MCTS1		NP_054779		Homo sapiens malignant T cell amplified sequence 1 (MCTS1), mRNA
NM_014463	LSM3		NP_055278		Homo sapiens LSM3 homolog; U6 small nuclear RNA associated (S. cerevisiae) (LSM3), mRNA
AF294007			AAG31577		Homo sapiens haplotype 1 eosinophil-derived neurotoxin gene, complete cds
NM_003092	SNRPB2		NP_003083		Homo sapiens small nuclear ribonucleoprotein polypeptide B" (SNRPB2), transcript variant 1, mRNA
NM_001418	EIF4G2		NP_001409		Homo sapiens eukaryotic translation initiation factor 4 gamma; 2 (EIF4G2), mRNA
NM_006802	SF3A3		NP_006793		Homo sapiens splicing factor 3a, subunit 3, 60kDa (SF3A3), mRNA
XM_093626	LOC152108		XP_093626		Homo sapiens similar to ubiquitin A-52 residue ribosomal protein fusion product 1 (LOC152108), mRNA
BC000138	HNRPM		AAH00138		Homo sapiens heterogeneous nuclear ribonucleoprotein M, transcript variant 1, mRNA (cDNA clone MGC:5136 IMAGE:2900532), complete cds
NM_007040	HNRPUL1		NP_008971		Homo sapiens heterogeneous nuclear ribonucleoprotein U-like 1 (HNRPUL1), transcript variant 1, mRNA
NM_003908	EIF2S2		NP_003899		Homo sapiens eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa (EIF2S2), mRNA
NM_000994	RPL32		NP_000985		Homo sapiens ribosomal protein L32 (RPL32), mRNA
NM_003757	EIF3S2		NP_003748		Homo sapiens eukaryotic translation initiation factor 3, subunit 2 beta, 36kDa (EIF3S2), mRNA
NM_080632	UPF3B		NP_542199		Homo sapiens UPF3 regulator of nonsense transcripts homolog B (yeast) (UPF3B), transcript variant 1, mRNA

Figure 14

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product			Description
		GeneBank Accession Number or Manufacturer Sequence Reference	GeneBank Accession Number or Manufacturer Sequence Reference	GeneBank Accession Number or Manufacturer Sequence Reference	
AB002310	KIAA0312	BAA20771			Homo sapiens mRNA for KIAA0312 gene, partial cds.
NM_001005	RPS3	NP_000996			Homo sapiens ribosomal protein S3 (RPS3), mRNA.
NM_016638	ARL6IP4	NP_057722			Homo sapiens ADP-ribosylation-like factor 6 interacting protein 4 (ARL6IP4), mRNA.
NM_018387	STRBP	NP_060857			Homo sapiens spermatid perinuclear RNA binding protein (STRBP), mRNA.
NM_001212	C1QBP	NP_001203			Homo sapiens complement component 1, q subcomponent binding protein (C1QBP), nuclear gene encoding mitochondrial protein, mRNA.
NM_004985	KRAS2	NP_004976			Homo sapiens v-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog (KRAS2), transcript variant b, mRNA.
XM_061002	LOC118523	XP_061002			Homo sapiens LOC118523 (LOC118523), mRNA.
NM_003799	RNMT	NP_003790			Homo sapiens RNA (guanine-7-) methyltransferase (RNMT), mRNA.
NM_021190	PTBP2	NP_067013			Homo sapiens polypyrimidine tract binding protein 2 (PTBP2), mRNA.
NM_030980	FLJ12671	NP_112242			Homo sapiens hypothetical protein FLJ12671 (FLJ12671), mRNA.
NM_000971	RPL7	NP_000962			Homo sapiens ribosomal protein L7 (RPL7), mRNA.
NM_000995	RPL34	NP_000986			Homo sapiens ribosomal protein L34 (RPL34), transcript variant 1, mRNA.
NM_007006	CPSF5	NP_008937			Homo sapiens cleavage and polyadenylation specific factor 5, 25 kDa (CPSF5), mRNA.
NM_003429	ZNF85	NP_003420			Homo sapiens zinc finger protein 85 (HPF4, HTF1) (ZNF85), mRNA.
NM_006112	PPIE	NP_006103			Homo sapiens peptidylprolyl isomerase E (cyclophilin E) (PPIE), transcript variant 1, mRNA.
NM_014502	PRP19	NP_055317			Homo sapiens PRP19/PSO4 homolog (S. cerevisiae) (PRP19), mRNA.
AC004858	WUGSC:H_DJ0687K01.2	AAF19255			Homo sapiens PAC clone RP4-687K1 from 14, complete sequence.
XM_060358	LOC127164	XP_060358			Homo sapiens similar to TAR DNA binding protein (LOC127164), mRNA.
NM_003819	PABPC4	NP_003810			Homo sapiens poly(A) binding protein, cytoplasmic 4 (inducible form) (PABPC4), mRNA.
AB014564	KIAA0664	BAA31639			Homo sapiens mRNA for KIAA0664 protein, partial cds.
NM_022170	WBSCR1	NP_071496			Homo sapiens Williams-Beuren syndrome chromosome region 1 (WBSCR1), transcript variant 1, mRNA.
NM_005087	FXR1	NP_005078			Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA.
NM_003680	YARS	NP_003671			Homo sapiens tyrosyl-tRNA synthetase (YARS), mRNA.

Nucleotide		Protein Product	
GenBank Accession		GeneBank	
Number or		Accession	
Manufacturer		Number or	
Sequence ID	Gene Name or	Manufacturer	Description
	Manufacturer Probe Name	Sequence	
		Reference	
NM_004500	HNRPC	NP_004491	Homo sapiens heterogeneous nuclear ribonucleoprotein C (C1/C2) (HNRPC), transcript variant 2, mRNA.
AC004858	WUGSC:H_DJ0687K01.2	AAF19255	Homo sapiens PAC clone RP4-687K1 from 14, complete sequence.
NM_002887	RARS	NP_002878	Homo sapiens arginyl-tRNA synthetase (RARS), mRNA.
NM_020414	DDX24	NP_065147	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 24 (DDX24), mRNA.
NM_014871	USP52	NP_055686	Homo sapiens ubiquitin specific protease 52 (USP52), mRNA.
XM_063601	LOC123341	XP_063601	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A1 (Helix-destabilizing protein) (Single-strand binding protein) (hnRNP core protein A1) (HDP) (LOC123341), mRNA.
NM_000988	RPL27	NP_000979	Homo sapiens ribosomal protein L27 (RPL27), mRNA.
AF266720S4	RBMX	AAK58567	Homo sapiens RBMX (RBMX) gene, exons 6 through 9 and complete cds.
NM_001967	EIF4A2	NP_001958	Homo sapiens eukaryotic translation initiation factor 4A, isoform 2 (EIF4A2), mRNA.
XM_059612	LOC132928	XP_059612	Homo sapiens similar to polyA binding protein (AA 1-633) (LOC132928), mRNA.
NM_018959	DAZAP1	NP_061832	Homo sapiens DAZ associated protein 1 (DAZAP1), transcript variant 2, mRNA.
NM_004294	MTRF1	NP_004285	Homo sapiens mitochondrial translational release factor 1 (MTRF1), nuclear gene encoding mitochondrial protein, mRNA.
NM_001031	RPS28	NP_001022	Homo sapiens ribosomal protein S28 (RPS28), mRNA.
AB046830	KIAA1610	BAB13436	Homo sapiens mRNA for KIAA1610 protein, partial cds.
NM_007358	M96	NP_031384	Homo sapiens likely ortholog of mouse metal response element binding transcription factor 2 (M96), mRNA.
AF083441		AAD52028	Homo sapiens SUI1 isolog mRNA, complete cds.
NM_014393	STAU2	NP_055208	Homo sapiens staufer, RNA binding protein, homolog 2 (Drosophila) (STAU2), mRNA.
NM_017544	NRF	NP_060014	Homo sapiens NF-kappa B-repressing factor (NRF), mRNA.
AF155096		AAD42862	Homo sapiens NY-REN-6 antigen mRNA, partial cds.
NM_015703	CGI-96	NP_056518	Homo sapiens CGI-96 protein (CGI-96), mRNA.
NM_021993	FUSIP2	NP_068833	Homo sapiens FUS interacting protein (serine-arginine rich) 2 (FUSIP2), mRNA.
NM_001970	EIF5A	NP_001961	Homo sapiens eukaryotic translation initiation factor 5A (EIF5A), mRNA.

Figure 14

Nucleotide		Protein Product	
GenBank Accession	Gene Name or	GeneBank	Description
Number or	Manufacturer	Accession	
Manufacturer	Sequence	Number or	
Sequence ID	Manufacturer	Manufacturer	
Sequence ID	Manufacturer	Sequence	
Sequence ID	Manufacturer	Reference	
NM_012322	LSM5	NP_036454	Homo sapiens LSM5 homolog, U6 small nuclear RNA associated (S. cerevisiae) (LSM5), mRNA
NM_003142	SSB	NP_003133	Homo sapiens Sjogren syndrome antigen B (autoantigen La) (SSB), mRNA
NM_003017	SFRS3	NP_003008	Homo sapiens splicing factor, arginine/serine-rich 3 (SFRS3), mRNA
AC004957			Homo sapiens PAC clone RP5-1093O17 from 7, complete sequence.
NM_001019	RPS15A	NP_001010	Homo sapiens ribosomal protein S15a (RPS15A), mRNA
NM_005782	THOC4	NP_005773	Homo sapiens THO complex 4 (THOC4), mRNA
NM_006924	SFRS1	NP_008855	Homo sapiens splicing factor, arginine/serine-rich 1 (splicing factor 2, alternate splicing factor) (SFRS1), mRNA
NM_031369	HNRPD	NP_112737	Homo sapiens heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa) (HNRPD), transcript variant 2, mRNA
NM_020690	MASK	NP_065741	Homo sapiens multiple ankyrin repeats, single KH-domain (MASK) homolog (MASK), mRNA
NM_016047	P14	NP_057131	Homo sapiens pre-mRNA branch site protein p14 (P14), mRNA
NM_004953	EIF4G1	NP_004944	Homo sapiens eukaryotic translation initiation factor 4 gamma, 1 (EIF4G1), transcript variant 5, mRNA
NM_006625	FUSIP1	NP_006616	Homo sapiens FUS interacting protein (serine-arginine rich) 1 (FUSIP1), transcript variant 1, mRNA
NM_021104	RPL41	NP_066927	Homo sapiens ribosomal protein L41 (RPL41), mRNA
NM_001751	CARS	NP_001742	Homo sapiens cysteinyl-tRNA synthetase (CARS), transcript variant 2, mRNA
NM_001533	HNRPL	NP_001524	Homo sapiens heterogeneous nuclear ribonucleoprotein L (HNRPL), mRNA
NM_004397	DDX6	NP_004388	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 6 (DDX6), mRNA
NM_005762	TRIM28	NP_005753	Homo sapiens tripartite motif-containing 28 (TRIM28), mRNA
NM_003756	EIF3S3	NP_003747	Homo sapiens eukaryotic translation initiation factor 3, subunit 3 gamma, 40kDa (EIF3S3), mRNA
NM_022551	RPS18	NP_072045	Homo sapiens ribosomal protein S18 (RPS18), mRNA
NM_020365	EIF2B3	NP_065098	Homo sapiens eukaryotic translation initiation factor 2B, subunit 3 gamma, 58kDa (EIF2B3), mRNA
XM_047499	LOC149603	XP_047499	Homo sapiens hypothetical protein LOC149603 (LOC149603), mRNA
NM_006548	IMP-2	NP_006539	Homo sapiens (GF-II) mRNA-binding protein 2 (IMP-2), mRNA
NM_000984	RPL23A	NP_000975	Homo sapiens ribosomal protein L23a (RPL23A), mRNA

Figure 14

Nucleotide		Protein Product	
GenBank Accession	GeneBank		
Number or	Accesssion	Number or	
Manufacturer	Manufacturer	Sequence	
Sequence ID	Manufacturer Probe Name	Reference	Description
NM_001022	RPS19	NP_001013	Homo sapiens ribosomal protein S19 (RPS19), mRNA.
NM_005617	RPS14	NP_005608	Homo sapiens ribosomal protein S14 (RPS14), mRNA.
NM_003187	TAF9	NP_003178	Homo sapiens TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 32kDa (TAF9), transcript variant 1, mRNA.
NM_006386	DDX17	NP_006377	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 17 (DDX17), transcript variant 1, mRNA.
NM_000990	RPL27A	NP_000981	Homo sapiens ribosomal protein L27a (RPL27A), mRNA.
NM_005850	SF3B4	NP_005841	Homo sapiens splicing factor 3b, subunit 4, 49kDa (SF3B4), mRNA.
AC004957			Homo sapiens PAC clone RP5-1093O17 from 7, complete sequence.
NM_003729	RTCD1	NP_003720	Homo sapiens RNA terminal phosphate cyclase domain 1 (RTCD1), mRNA.
NM_006451	PAIP1	NP_006442	Homo sapiens poly(A) binding protein interacting protein 1 (PAIP1), transcript variant 1, mRNA.
NM_002137	HNRPA2B1	NP_002128	Homo sapiens heterogeneous nuclear ribonucleoprotein A2/B1 (HNRPA2B1), transcript variant A2, mRNA.
NM_001009	RPS5	NP_001000	Homo sapiens ribosomal protein S5 (RPS5), mRNA.
NM_005646	TARBP1	NP_005637	Homo sapiens TAR (HIV) RNA binding protein 1 (TARBP1), mRNA.
NM_015646	RAP1B	NP_056461	Homo sapiens RAP1B, member of RAS oncogene family (RAP1B), mRNA.
XM_064113	LOC124380	XP_064113	Homo sapiens LOC124380 (LOC124380), mRNA.
NM_004697	PRPF4	NP_004688	Homo sapiens PRP4 pre-mRNA processing factor 4 homolog (yeast) (PRPF4), mRNA.
AC004957			Homo sapiens PAC clone RP5-1093O17 from 7, complete sequence.
NM_001358	DHX15	NP_001349	Homo sapiens DEAH (Asp-Glu-Ala-His) box polypeptide 15 (DHX15), mRNA.
NM_005520	HNRPH1	NP_005511	Homo sapiens heterogeneous nuclear ribonucleoprotein H1 (H) (HNRPH1), mRNA.
NM_003333	UBA52	NP_003324	Homo sapiens ubiquitin A-52 residue ribosomal protein fusion product 1 (UBA52), mRNA.
XM_098297	LOC153028	XP_098297	Homo sapiens similar to RNA binding protein S1, serine-rich domain (H. sapiens) (LOC153028), mRNA.
NM_006559	KHDRBS1	NP_006550	Homo sapiens KH domain containing, RNA binding, signal transduction associated 1 (KHDRBS1), mRNA.
BC000595	DDX17	AAH00595	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 17, mRNA (cDNA clone MGC:2030 IMAGE:3345982), complete cds.
NM_001006	RPS3A	NP_000997	Homo sapiens ribosomal protein S3A (RPS3A), mRNA.

Figure 14

Nucleotide		Protein Product		
GenBank Accession	GeneBank	Accession	Manufacturer	Description
Number or Manufacturer	Sequence	Number or Manufacturer	Sequence	
Sequence ID	Manufacturer Probe Name	Reference		
NM_005870	SAP18	NP_005861		Homo sapiens sin3-associated polypeptide, 18kDa (SAP18), mRNA.
NM_014412	SIP	NP_055227		Homo sapiens Siah-interacting protein (SIP), mRNA.
NM_007104	RPL10A	NP_009035		Homo sapiens ribosomal protein L10a (RPL10A), mRNA.
NM_005121	THRAP1	NP_005112		Homo sapiens thyroid hormone receptor associated protein 1 (THRAP1), mRNA.
NM_080663	MGC16943	NP_542394		Homo sapiens similar to RIKEN cDNA 4933424N09 gene (MGC16943), mRNA.
NM_006074	TRIM22	NP_006065		Homo sapiens tripartite motif-containing 22 (TRIM22), mRNA.
NM_002950	RPN1	NP_002941		Homo sapiens ribophorin I (RPN1), mRNA.
XM_062934	LOC122056	XP_062934		Homo sapiens similar to ATP-dependent RNA helicase A (Nuclear DNA helicase II) (NDH II) (DEAD-box protein 9) (LOC122056), mRNA.
NM_033117	RBM18	NP_149108		Homo sapiens RNA binding motif protein 18 (RBM18), mRNA.
NM_005034	POLR2K	NP_005025		Homo sapiens polymerase (RNA) II (DNA directed) polypeptide K, 7.0kDa (POLR2K), mRNA.
NM_006805	HNRPA0	NP_006796		Homo sapiens heterogeneous nuclear ribonucleoprotein A0 (HNRPA0), mRNA.
NM_002696	POLR2G	NP_002687		Homo sapiens polymerase (RNA) II (DNA directed) polypeptide G (POLR2G), mRNA.
NM_002140	HNRPK	NP_002131		Homo sapiens heterogeneous nuclear ribonucleoprotein K (HNRPK), transcript variant 1, mRNA.
XM_053153	LOC149973	XP_053153		Homo sapiens similar to RNA binding motif protein, X chromosome (H. sapiens) (LOC149973), mRNA.
XM_070603	LOC137784	XP_070603		Homo sapiens similar to ANTIGEN GOR (LOC137784), mRNA.
NM_002938	RNF4	NP_002929		Homo sapiens ring finger protein 4 (RNF4), mRNA.
XM_086419	LOC149092	XP_086419		Homo sapiens similar to pumilio homolog 1 (Drosophila) (H. sapiens) (LOC149092), mRNA.
AC004957				Homo sapiens PAC clone RP5-1093O17 from 7, complete sequence.
NM_002520	NPM1	NP_002511		Homo sapiens nucleophosmin (nucleolar phosphoprotein B23, numatrin) (NPM1), mRNA.
NM_005437	NCOA4	NP_005428		Homo sapiens nuclear receptor coactivator 4 (NCOA4), mRNA.
NM_001000	RPL39	NP_000991		Homo sapiens ribosomal protein L39 (RPL39), mRNA.
NM_000969	RPL5	NP_000960		Homo sapiens ribosomal protein L5 (RPL5), mRNA.
NM_000973	RPL8	NP_000964		Homo sapiens ribosomal protein L8 (RPL8), transcript variant 1, mRNA.
NM_003651	CSDA	NP_003642		Homo sapiens cold shock domain protein A (CSDA), mRNA.

Figure 14

Nucleotide		Protein Product		Description	
GenBank Accession	Number or Manufacturer	Gene Name or Manufacturer	Probe Name	Sequence Reference	
XM_067918		LOC132583		XP_067918	Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (LOC132583), mRNA
NM_006450		SPF45		NP_006441	Homo sapiens splicing factor (45kD) (SPF45), mRNA
NM_014912		CPEB3		NP_055727	Homo sapiens cytoplasmic polyadenylation element binding protein 3 (CPEB3), mRNA
NM_001326		CSTF3		NP_001317	Homo sapiens cleavage stimulation factor, 3' pre-RNA, subunit 3, 77kDa (CSTF3), mRNA
NM_004940		DDX7		NP_004931	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 7 (RNA helicase, 52kDa) (DDX7), mRNA
NM_005021		ENPP3		NP_005012	Homo sapiens ectonucleotide pyrophosphatase/phosphodiesterase 3 (ENPP3), mRNA
NM_006047		RBM12		NP_006038	Homo sapiens RNA binding motif protein 12 (RBM12), transcript variant 1, mRNA
NM_014676		PUM1		NP_055491	Homo sapiens pumilio homolog 1 (Drosophila) (PUM1), mRNA
NM_002786		PSMA1		NP_002777	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 1 (PSMA1), transcript variant 2, mRNA
HUMNUCTIAR					
XM_086011		LOC148027		AAA36384 XP_086011	Homo sapiens nucleolysin TIAR mRNA, complete cds. Homo sapiens similar to bruno-like 5, RNA binding protein (Drosophila); Bruno (Drosophila) -like 5, RNA binding protein; CUG-BP and ETR-3 like factor 5; RNA-binding protein BRUNOL-5 (LOC148027), mRNA
NM_000967		RPL3		NP_000958	Homo sapiens ribosomal protein L3 (RPL3), mRNA
NM_014071		NCOA6		NP_054790	Homo sapiens nuclear receptor coactivator 6 (NCOA6), mRNA
XM_073386		LOC119594		XP_073386	Homo sapiens similar to SPLICING FACTOR U2AF 65 KDA SUBUNIT (U2 AUXILIARY FACTOR 65 KDA SUBUNIT) /U2 SNRNP AUXILIARY FACTOR LARGE SUBUNIT (U2AF65) (LOC119594), mRNA
NM_000982		RPL21		NP_000973	Homo sapiens ribosomal protein L21 (RPL21), mRNA
AF062105		IGH		AAC18141	Homo sapiens clone 21u-19 immunoglobulin heavy chain variable region (IGH) mRNA, partial cds.
NM_006414		RPP38		NP_006405	Homo sapiens ribonuclease P/MRP 38kDa subunit (RPP38), transcript variant 2, mRNA
NM_004599		SREBF2		NP_004590	Homo sapiens sterol regulatory element binding transcription factor 2 (SREBF2), mRNA
NM_007273		REA		NP_009204	Homo sapiens repressor of estrogen receptor activity (REA), mRNA
NM_002453		MTIF2		NP_002444	Homo sapiens mitochondrial translational initiation factor 2 (MTIF2), nuclear gene encoding mitochondrial protein, mRNA

Figure 14

Nucleotide		Protein Product		Description
GenBank Accession	Gene Name or	GeneBank	Accession	
Number or	Manufacturer	Number or	Manufacturer	
Sequence ID	Manufacturer	Sequence	Reference	
AF380184	SON	AAL34502		Homo sapiens SON DNA binding protein isoform F (SON) mRNA, complete cds, alternatively spliced.
HUMRNAHELA	DDX9	AAB48855		Human RNA helicase A mRNA, complete cds.
NM_006929	SKIV2L	NP_008860		Homo sapiens superkiller viralicidic activity 2-like (S. cerevisiae) (SKIV2L), mRNA.
AK001652		BAA91812		Homo sapiens cDNA FLJ10790 fis, clone NT2RP4000518, weakly similar to ATP-DEPENDENT RNA HELICASE ROK1.
AF037448	GRY-RBP	AAC12926		Homo sapiens RRM RNA binding protein Gry-rbp (GRY-RBP) mRNA, complete cds.
NM_000977	RPL13	NP_000968		Homo sapiens ribosomal protein L13 (RPL13), transcript variant 1, mRNA.
NM_016024	CGI-79	NP_057108		Homo sapiens CGI-79 protein (CGI-79), mRNA.
AB044971	nopp34	BAB41210		Homo sapiens mRNA for nucleolar phosphoprotein Nopp34, complete cds.
NM_000996	RPL35A	NP_000987		Homo sapiens ribosomal protein L35a (RPL35A), mRNA.
NM_031277	RNF17	NP_112567		Homo sapiens ring finger protein 17 (RNF17), transcript variant long, mRNA.
XM_057051	LOC140065	XP_057051		Homo sapiens similar to RNA binding motif protein, Y chromosome, family 1 member A1 (RNA-binding motif protein 1) (LOC140065), mRNA.
NM_006276	SFRS7	NP_006267		Homo sapiens splicing factor, arginine/serine-rich 7, 35kDa (SFRS7), mRNA.
NM_005008	NHP2L1	NP_004999		Homo sapiens NHP2 non-histone chromosome protein 2-like 1 (S. cerevisiae) (NHP2L1), mRNA.
NM_003138	SRPK2	NP_003129		Homo sapiens SFRS protein kinase 2 (SRPK2), mRNA.
XM_092386	LOC165115	XP_092386		Homo sapiens similar to KIAA1841 protein (LOC165115), mRNA.
XM_062047	LOC120470	XP_062047		Homo sapiens similar to discs, large (Drosophila) homolog 2; chapsyn-110 (LOC120470), mRNA.
NM_000991	RPL28	NP_000982		Homo sapiens ribosomal protein L28 (RPL28), mRNA.
NM_001537	HSBP1	NP_001528		Homo sapiens heat shock factor binding protein 1 (HSBP1), mRNA.
AB025254	BRD8	BAA76379		Homo sapiens mRNA for tudor repeat associator with PCTAIRE 2, partial cds.
NM_006696	BRD8	NP_006687		Homo sapiens bromodomain containing 8 (BRD8), transcript variant 1, mRNA.
NM_030941	LOC81691	NP_112203		Homo sapiens exonuclease NEF-sp (LOC81691), mRNA.
NM_016132	MYEF2	NP_057216		Homo sapiens myelin expression factor 2 (MYEF2), mRNA.
NM_004640	BAT1	NP_004631		Homo sapiens HLA-B associated transcript 1 (BAT1), transcript variant 1, mRNA.

Figure 14

Nucleotide		Protein Product			Description
GenBank Accession	Gene Name or Manufacturer Probe Name	GeneBank Accession Number or Manufacturer Sequence Reference	GeneBank Accession Number or Manufacturer Sequence Reference	GeneBank Accession Number or Manufacturer Sequence Reference	
Number or Manufacturer Sequence ID	Manufacturer Probe Name	Sequence	Reference	Reference	
Manufacturer	Manufacturer Probe Name	Sequence	Reference	Reference	
NM_012345	NUFIP1	NP_036477	XP_092031	Homo sapiens nuclear fragile X mental retardation protein interacting protein 1 (NUFIP1), mRNA.	
XM_092031	LOC163147	XP_092031		Homo sapiens similar to Splicing factor 3A subunit 2 (Spliceosome associated protein 62) (SAP 62) (SF3a66) (LOC163147), mRNA.	
XM_067074	LOC140100	XP_067074		Homo sapiens similar to RBM1 (LOC140100), mRNA.	
NM_002047	GARS	NP_002038		Homo sapiens glycyl-tRNA synthetase (GARS), mRNA.	
NM_001017	RPS13	NP_001008		Homo sapiens ribosomal protein S13 (RPS13), mRNA.	
NM_004506	HSF2	NP_004497		Homo sapiens heat shock transcription factor 2 (HSF2), mRNA.	
NM_012426	SF3B3	NP_036558		Homo sapiens splicing factor 3b, subunit 3, 130kDa (SF3B3), mRNA.	
NM_019038	TDRD4	NP_061911		Homo sapiens tudor domain containing 4 (TDRD4), mRNA.	
AC022517	ADAR	AAF31271		Homo sapiens chromosome 19, BC335474 (CIT-HSPC_482H14), complete sequence.	
NM_001111	ADAR	NP_001102		Homo sapiens adenosine deaminase, RNA-specific (ADAR), transcript variant ADAR-a, mRNA.	
XM_060102	LOC126635	XP_060102		Homo sapiens LOC126635 (LOC126635), mRNA.	
NM_017803	FLJ20399	NP_060273		Homo sapiens hypothetical protein FLJ20399 (FLJ20399), mRNA.	
XM_001524	LOC151173	XP_001524		Homo sapiens similar to TAR DNA-binding protein-43 (TDP-43) (LOC151173), mRNA.	
NM_004757	SCYE1	NP_004748		Homo sapiens small inducible cytokine subfamily E, member 1 (endothelial monocyte-activating) (SCYE1), mRNA.	
NM_014003	DHX38	NP_054722		Homo sapiens DEAH (Asp-Glu-Ala-His) box polypeptide 38 (DHX38), mRNA.	
XM_086792	LOC150152	XP_086792		Homo sapiens similar to SPLICING FACTOR U2AF 35 KD SUBUNIT (U2 AUXILIARY FACTOR 35 KD SUBUNIT) (U2AF35) (LOC150152), mRNA.	
AC004957	CPSF6	NP_008938		SNRNP AUXILIARY FACTOR SMALL SUBUNIT (LOC150152), mRNA.	
NM_007007	EXOSC4	NP_061910		Homo sapiens PAC clone RP5-1093O17 from 7, complete sequence.	
NM_019037	LOC137786	XP_070605		Homo sapiens cleavage and polyadenylation specific factor 6, 68kDa (CPSF6), mRNA.	
XM_070605	FLJ20274	NP_060206		Homo sapiens exosome component 4 (EXOSC4), mRNA.	
NM_017736	HSU84971	NP_060516		Homo sapiens similar to ANTIGEN GOR (LOC137786), mRNA.	
NM_018046				Homo sapiens hypothetical protein FLJ20274 (FLJ20274), mRNA.	
				Homo sapiens vasculogenesis gene on 5q (HSU84971), mRNA.	

37/89

Nucleotide		Protein Product	
GenBank Accession	Gene Name or	GeneBank	
Number or	Manufacturer Probe Name	Accession	
Manufacturer		Number or	
Sequence ID	Manufacturer Probe Name	Manufacturer	Description
NM_006842	SF3B2	NP_006833	Homo sapiens splicing factor 3b, subunit 2, 145kD (SF3B2), mRNA.
NM_021033	RAP2A	NP_066361	Homo sapiens RAP2A, member of RAS oncogene family (RAP2A), mRNA.
XM_095899	LOC169732	XP_095899	Homo sapiens similar to EXOSOME COMPLEX EXONUCLEASE RRP4 (RIBOSOMAL RNA PROCESSING PROTEIN 4) (LOC169732), mRNA.
NM_031274	TEX13A	NP_112564	Homo sapiens testis expressed sequence 13A (TEX13A), mRNA.
NM_006387	CHERP	NP_006378	Homo sapiens calcium homeostasis endoplasmic reticulum protein (CHERP), mRNA.
NM_000964	RARA	NP_000955	Homo sapiens retinoic acid receptor, alpha (RARA), mRNA.
XM_066446	LOC139051	XP_066446	Homo sapiens similar to pol protein (LOC139051), mRNA.
NM_003072	SMARCA4	NP_003063	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4 (SMARCA4), mRNA.
NM_022767	FLJ12484	NP_073604	Homo sapiens hypothetical protein FLJ12484 (FLJ12484), mRNA.
NM_001112	ADARB1	NP_001103	Homo sapiens adenosine deaminase, RNA-specific, B1 (RED1 homolog rat) (ADARB1), transcript variant DRADA2a, mRNA.
NM_017774	CDKAL1	NP_060244	Homo sapiens CDK5 regulatory subunit associated protein 1-like 1 (CDKAL1), mRNA.
NM_013302	EEF2K	NP_037434	Homo sapiens elongation factor-2 kinase (EEF2K), mRNA.
NM_018702	ADARB2	NP_061172	Homo sapiens adenosine deaminase, RNA-specific, B2 (RED2 homolog rat) (ADARB2), mRNA.
XM_089765	LOC143344	XP_089765	Homo sapiens similar to poly(A) binding protein (LOC143344), mRNA.
AF026564	RBMII	AAC16916	Homo sapiens RNA binding protein II (RBMII) gene, complete cds.
NM_016333	SRRM2	NP_057417	Homo sapiens serine/arginine repetitive matrix 2 (SRRM2), mRNA.
NM_004039	ANXA2	NP_004030	Homo sapiens annexin A2 (ANXA2), mRNA.
NM_006187	OAS3	NP_006178	Homo sapiens 2'-5'-oligoadenylate synthetase 3, 100kDa (OAS3), mRNA.
XM_089587	LOC159428	XP_089587	Homo sapiens similar to EUKARYOTIC TRANSLATION INITIATION FACTOR 4B (EIF-4B) (LOC159428), mRNA.
AB061839	RPS9	BAB79477	Homo sapiens RPS9 gene for ribosomal protein S9, complete cds and sequence.
NM_018060	FLJ10326	NP_060530	Homo sapiens mitochondrial isoleucine tRNA synthetase (FLJ10326), mRNA.

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product			Description
		GeneBank Accession Number or Manufacturer Sequence Reference	GeneBank Accession Number or Manufacturer Sequence Reference	GeneBank Accession Number or Manufacturer Sequence Reference	
NM_003787	NOL4	NP_003778			Homo sapiens nucleolar protein 4 (NOL4), mRNA.
NM_003086	SNAPC4	NP_003077			Homo sapiens small nuclear RNA activating complex, polypeptide 4, 190kDa (SNAPC4), mRNA.
NM_004728	DDX21	NP_004719			Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 21 (DDX21), mRNA.
XM_092043	LOC163160	XP_092043			Homo sapiens similar to polypyrimidine tract binding protein, isoform b; heterogeneous nuclear ribonucleoprotein polypeptide 1; RNA binding protein (LOC163160), mRNA.
NM_014829	DDX46	NP_055644			Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 46 (DDX46), mRNA.
NM_004597	SNRPD2	NP_004588			Homo sapiens small nuclear ribonucleoprotein D2 polypeptide 16.5kDa (SNRPD2), transcript variant 1, mRNA.
NM_004774	PPARBP	NP_004765			Homo sapiens PPAR binding protein (PPARBP), mRNA.
NM_002515	NOVA1	NP_002506			Homo sapiens neuro-oncological ventral antigen 1 (NOVA1), transcript variant 1, mRNA.
NM_006410	HTATIP2	NP_006401			Homo sapiens HIV-1 Tat interactive protein 2, 30kDa (HTATIP2), mRNA.
NM_005687	FARSLB	NP_005678			Homo sapiens phenylalanine-tRNA synthetase-like, beta subunit (FARSLB), mRNA.
NM_001644	APOBEC1	NP_001635			Homo sapiens apolipoprotein B mRNA editing enzyme, catalytic polypeptide 1 (APOBEC1), transcript variant 1, mRNA.
NM_033246	PML	NP_150249			Homo sapiens promyelocytic leukemia (PML), transcript variant 7, mRNA.
XM_091270	LOC161983	XP_091270			Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A1 (Helix-destabilizing protein) (Single-strand binding protein) (hnRNP core protein A1) (HDP-1) (Topoisomerase-inhibitor suppressed) (LOC161983), mRNA.
NM_015409	EP400	NP_056224			Homo sapiens E1A binding protein p400 (EP400), mRNA.
NM_015453	DKFZP434F091	NP_056268			Homo sapiens DKFZP434F091 protein (DKFZP434F091), mRNA.
XM_067072	LOC140098	XP_067072			Homo sapiens similar to RBM1 (LOC140098), mRNA.
XM_056568	LOC147774	XP_056568			Homo sapiens similar to KH-type splicing regulatory protein (FUSE binding protein 2) (H. sapiens) (LOC147774), mRNA.
NM_022078	FLJ12455	NP_071361			Homo sapiens hypothetical protein FLJ12455 (FLJ12455), mRNA.
NM_001364	DLG2	NP_001355			Homo sapiens discs, large homolog 2, chapsyn-110 (Drosophila) (DLG2), mRNA.

Nucleotide		Protein Product			Description
GenBank Accession	Sequence ID	Gene Name or Manufacturer Probe Name	GeneBank Accession Number or Manufacturer Sequence Reference	Manufacturer	
NM_003752		EIF3S8	NP_003743		Homo sapiens eukaryotic translation initiation factor 3, subunit 8, 110kDa (EIF3S8), mRNA
XM_091235		LOC161931	XP_091235		Homo sapiens similar to testis nuclear RNA binding protein; testis nuclear RNA-binding protein (LOC161931), mRNA.
NM_014977		ACINUS	NP_055792		Homo sapiens apoptotic chromatin condensation inducer in the nucleus (ACINUS), mRNA.
NM_000461		THRB	NP_000452		Homo sapiens thyroid hormone receptor, beta (erythroblastic leukemia viral (v-erb-a) oncogene homolog 2, avian) (THRB), mRNA.
NM_024939		FLJ21918	NP_079215		Homo sapiens hypothetical protein FLJ21918 (FLJ21918), mRNA.
NM_032572		RNASE7	NP_115961		Homo sapiens ribonuclease, RNase A family, 7 (RNASE7), mRNA.
AF315592		PUMH1	AAG31807		Homo sapiens Pumilio 1 (PUMH1) mRNA, complete cds.
NM_004433		ELF3	NP_004424		Homo sapiens E74-like factor 3 (ets domain transcription factor, epithelial-specific) (ELF3), mRNA.
XM_058943		LOC125925	XP_058943		Homo sapiens similar to R32611_1 (LOC125925), mRNA.
NM_006624		BS69	NP_006615		Homo sapiens adenovirus 5 E1A binding protein (BS69), mRNA.
NM_016166		PIAS1	NP_057250		Homo sapiens protein inhibitor of activated STAT, 1 (PIAS1), mRNA.
NM_006663		RAI	NP_006654		Homo sapiens RelA-associated inhibitor (RAI), mRNA.
XM_058876		MGC49942	XP_058876		Homo sapiens hypothetical protein MGC49942 (MGC49942), mRNA.
NM_000057		BLM	NP_000048		Homo sapiens Bloom syndrome (BLM), mRNA.
NM_004461		FARSLA	NP_004452		Homo sapiens phenylalanine-tRNA synthetase-like, alpha subunit (FARSLA), mRNA.
NM_006163		NFE2	NP_006154		Homo sapiens nuclear factor (erythroid-derived 2), 45kDa (NFE2), mRNA.
AE006640		NDUFB10	AAK61302		Homo sapiens 16p13.3 sequence section 8 of 8.
NM_017846		SECP43	NP_060316		Homo sapiens tRNA selenocysteine associated protein (SECP43), mRNA.
XM_088975		LOC148683	XP_088975		Homo sapiens similar to pumilio homolog 1 (Drosophila); pumilio (Drosophila) homolog 1 (LOC148683), mRNA.
NM_012321		LSM4	NP_036453		Homo sapiens LSM4 homolog, U6 small nuclear RNA associated (S. cerevisiae) (LSM4), mRNA.
NM_012143		TFIP11	NP_036275		Homo sapiens tuftelin interacting protein 11 (TFIP11), mRNA.
NM_001111		ADAR	NP_001102		Homo sapiens adenosine deaminase, RNA-specific (ADAR), transcript variant ADAR-a, mRNA.

Nucleotide			Protein Product		
GenBank Accession	GeneBank		GeneBank		
Number or Manufacturer	Accssion Number or Manufacturer		Number or Manufacturer		
Manufacturer Sequence ID	Manufacturer Sequence Reference	Gene Name or Manufacturer Probe Name	Manufacturer Sequence Reference		Description
NM_001535	NP_001526	HRMT1L1	NP_001526		Homo sapiens HMT1 hnRNP methyltransferase-like 1 (S. cerevisiae) (HRMT1L1), mRNA.
NM_016173	NP_057257	HEMK	NP_057257		Homo sapiens HEMK homolog 7kb (HEMK), mRNA.
NM_005754	NP_005745	G3BP	NP_005745		Homo sapiens Ras-GTPase-activating protein SH3-domain-binding protein (G3BP), transcript variant 1, mRNA.
NM_002892	NP_002883	ARID4A	NP_002883		Homo sapiens AT rich interactive domain 4A (RBP1-like) (ARID4A), transcript variant 1, mRNA.
XM_092221	XP_092221	LOC164891	XP_092221		Homo sapiens similar to mRNA for ribosomal protein S9 (LOC164891), mRNA.
NM_001412	NP_001403	EIF1A	NP_001403		Homo sapiens eukaryotic translation initiation factor 1A (EIF1A), mRNA.
XM_095591	XP_095591	LOC169242	XP_095591		Homo sapiens similar to data source:SPTR, source key:O94865, evidence:ISS-homolog to KIAA0765 PROTEIN (HRIHFB2091 PROTEIN) (FRAGMENT)-putative (LOC169242), mRNA.
NM_033004	NP_127497	NALP1	NP_127497		Homo sapiens NACHT, leucine rich repeat and PYD containing 1 (NALP1), transcript variant 1, mRNA.
XM_093336	XP_093336	LOC165631	XP_093336		Homo sapiens similar to Eukaryotic translation initiation factor 4B (eIF-4B) (LOC165631), mRNA.
NM_012255	NP_036387	XRN2	NP_036387		Homo sapiens 5'-3' exonuclease 2 (XRN2), mRNA.
XM_065002	XP_065002	LOC126246	XP_065002		Homo sapiens LOC126246 (LOC126246), mRNA.
NM_001618	NP_001609	ADPRT	NP_001609		Homo sapiens ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase) (ADPRT), mRNA.
XM_067452	XP_067452	LOC131596	XP_067452		Homo sapiens similar to splicing factor 3a, subunit 2, 66kD; Spliceosome protein SAP-62 (LOC131596), mRNA.
XM_062601	XP_062601	LOC121365	XP_062601		Homo sapiens similar to RBM1 (LOC121365), mRNA.
HUMAUJ	AAB59352		AAB59352		Homo sapiens (clone JH4B1) PM-scl autoantigen mRNA, complete cds.
NM_001686	NP_001677	ATP5B	NP_001677		Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, beta polypeptide (ATP5B), mRNA.
NM_007294	NP_009225	BRCA1	NP_009225		Homo sapiens breast cancer 1, early onset (BRCA1), transcript variant BRCA1a, mRNA.
NM_002502	NP_002493	NFKB2	NP_002493		Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100) (NFKB2), mRNA.
XM_068248	XP_068248	LOC133225	XP_068248		Homo sapiens similar to heterogeneous ribonuclear particle protein A1.beta - human (LOC133225), mRNA.
NM_021724	NP_068370	NR1D1	NP_068370		Homo sapiens nuclear receptor subfamily 1, group D, member 1 (NR1D1), mRNA.
NM_016374	NP_057458	ARID4B	NP_057458		Homo sapiens AT rich interactive domain 4B (RBP1-like) (ARID4B), transcript variant 1, mRNA.

Nucleotide GenBank Accession		Protein Product GeneBank Accession Number or Manufacturer Sequence		Description
Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Manufacturer Sequence Reference		
XM_068022	LOC132772	XP_068022	Homo sapiens similar to split ends; polycephalon; yippee interacting protein 1 (LOC132772), mRNA.	
NM_005548	KARS	NP_005539	Homo sapiens lysyl-tRNA synthetase (KARS), mRNA.	
NM_006311	NCOR1	NP_006302	Homo sapiens nuclear receptor co-repressor 1 (NCOR1), mRNA.	
NM_016505	PS1D	NP_057589	Homo sapiens putative S1 RNA binding domain protein (PS1D), mRNA.	
NM_004719	SFRS2IP	NP_004710	Homo sapiens splicing factor, arginine/serine-rich 2, interacting protein (SFRS2IP), mRNA.	
NM_003686	EXO1	NP_003677	Homo sapiens exonuclease 1 (EXO1), transcript variant 3, mRNA.	
NM_005481	THRAP5	NP_005472	Homo sapiens thyroid hormone receptor associated protein 5 (THRAP5), mRNA.	
NM_002296	LBR	NP_002287	Homo sapiens lamin B receptor (LBR), transcript variant 1, mRNA.	
NM_014966	DHX30	NP_055781	Homo sapiens DEAH (Asp-Glu-Ala-His) box polypeptide 30 (DHX30), transcript variant 2, mRNA.	
AF026126	HNRPD	AAC23476	Homo sapiens heterogeneous nuclear ribonucleoprotein D (HNRPD) gene, complete cds.	
XM_066901	LOC139801	XP_066901	Homo sapiens LOC139801 (LOC139801), mRNA.	
AK057303		BAB71416	Homo sapiens cDNA FLJ32741 fis, clone TESTI2001345, highly similar to M.musculus Tenr mRNA for RNA binding protein	
XM_057087	LOC140123	XP_067087	Homo sapiens similar to RNA binding motif protein, Y chromosome, family 2 member B (LOC140123), mRNA.	
NM_033502	TRERF1	NP_277037	Homo sapiens transcriptional regulating factor 1 (TRERF1), transcript variant 1, mRNA.	
NM_005822	DSCR1L1	NP_005813	Homo sapiens Down syndrome critical region gene 1-like 1 (DSCR1L1), mRNA.	
NM_002897	RBMS1	NP_002888	Homo sapiens RNA binding motif, single stranded interacting protein 1 (RBMS1), transcript variant scr2, mRNA.	
XM_067844	LOC132430	XP_067844	Homo sapiens similar to Polyadenylate-binding protein 4 (Poly(A)-binding protein 4) (PABP 4) (Inducible poly(A)-binding protein) (iPABP) (Activated-platelet protein-1) (APP-1) (LOC132430), mRNA.	
NM_002949	MRPL12	NP_002940	Homo sapiens mitochondrial ribosomal protein L12 (MRPL12), nuclear gene encoding mitochondrial protein, mRNA.	
NM_003219	TERT	NP_003210	Homo sapiens telomerase reverse transcriptase (TERT), transcript variant 1, mRNA.	
XM_070624	LOC137819	XP_070624	Homo sapiens LOC137819 (LOC137819), mRNA.	

Figure 14

Nucleotide		Protein Product		
GenBank Accession		GeneBank	Accession	
Number or		Number or		
Manufacturer		Manufacturer		
Sequence ID	Gene Name or	Sequence		Description
	Manufacturer Probe Name	Reference		
NM_002937	RNASE4	NP_002928		Homo sapiens ribonuclease, RNase A family, 4 (RNASE4), transcript variant 2, mRNA.
NM_006546	IMP-1	NP_006537		Homo sapiens IGF-II mRNA-binding protein 1 (IMP-1), mRNA.
NM_004860	FXR2	NP_004851		Homo sapiens fragile X mental retardation, autosomal homolog 2 (FXR2), mRNA.
NM_003321	TUFM	NP_003312		Homo sapiens Tu translation elongation factor, mitochondrial (TUFM), mRNA.
NM_005693	NR1H3	NP_005684		Homo sapiens nuclear receptor subfamily 1, group H, member 3 (NR1H3), mRNA.
NM_006565	CTCF	NP_006556		Homo sapiens CCCTC-binding factor (zinc finger protein) (CTCF), mRNA.
NM_018664	SNFT	NP_061134		Homo sapiens Jun dimerization protein p21SNFT (SNFT), mRNA.
M_000938	POLR2B	NP_000929		Homo sapiens polymerase (RNA) II (DNA directed) polypeptide B, 140kDa (POLR2B), mRNA.
M_002934	RNASE2	NP_002925		Homo sapiens ribonuclease, RNase A family, 2 (liver, eosinophil-derived neurotoxin) (RNASE2), mRNA.
M_006980	MTERF	NP_008911		Homo sapiens transcription termination factor, mitochondrial (MTERF), nuclear gene encoding mitochondrial protein, mRNA.

Figure 14

Nucleotide Sequence Description

GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein	Nucleotide Sequence Description
NM_012070	ATRN	NP_036202	Homo sapiens attractin (ATRN), transcript variant 3, mRNA.
NM_003488	AKAP1	NP_003479	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA.
XM_044795	LOC92392	XP_044795	Homo sapiens similar to colon cancer antigen NY-CO-45 (LOC92392), mRNA.
XM_089332	LOC14938 2	XP_089332	Homo sapiens similar to ribosomal protein L22 proteoform; 60S ribosomal protein L22; Epstein-Barr-associated RNA-associated protein; Epstein-Barr virus small RNA-associated protein; EBER-associated protein; heparin-binding protein 15; heparin-binding protein HBP15... (LOC149382), mRNA.
NM_001024	RPS21	NP_001015	Homo sapiens ribosomal protein S21 (RPS21), mRNA.
NM_001324	CSTF1	NP_001315	Homo sapiens cleavage stimulation factor, 3' pre-RNA, subunit 1, 50kDa (CSTF1), mRNA.
NM_006625	FUSIP1	NP_006616	Homo sapiens FUS interacting protein (serine-arginine rich) 1 (FUSIP1), transcript variant 1, mRNA.
NM_006540	NCOA2	NP_006531	Homo sapiens nuclear receptor coactivator 2 (NCOA2), mRNA.
NM_005782	THOC4	NP_005773	Homo sapiens THO complex 4 (THOC4), mRNA.
NM_032102	SRP46	NP_115285	Homo sapiens Splicing factor, arginine/serine-rich, 46kD (SRP46), mRNA.
NM_014497	NP220	NP_055312	Homo sapiens NP220 nuclear protein (NP220), mRNA.
..._022915	MRPL44	NP_075066	Homo sapiens mitochondrial ribosomal protein L44 (MRPL44), nuclear gene encoding mitochondrial protein, mRNA.
_003325	HIRA	NP_003316	Homo sapiens HIR histone cell cycle regulation defective homolog A (S. cerevisiae) (HIRA), mRNA.
_006397	RNASEH2 A	NP_006388	Homo sapiens ribonuclease H2, large subunit (RNASEH2A), mRNA.
I_006548	IMP-2	NP_006539	Homo sapiens IGF-II mRNA-binding protein 2 (IMP-2), mRNA.
I_005801	SUI1	NP_005792	Homo sapiens putative translation initiation factor (SUI1), mRNA.
F007157		AAC19158	Homo sapiens clone 23856 unknown mRNA, partial cds.
I_000029	AGT	NP_000020	Homo sapiens angiotensinogen (serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiprotease, antitrypsin), member 8) (AGT), mRNA.
I_002904	RDBP	NP_002895	Homo sapiens RD RNA binding protein (RDBP), mRNA.
BC016283	ABCE1	AAH16283	Homo sapiens ATP-binding cassette, sub-family E (OABP); member 1, mRNA (cDNA clone MGC:9023 IMAGE:3909151), complete cds.
AF049525	HYPC	AAC27503	Homo sapiens huntingtin-interacting protein HYPC (HYPC) mRNA, partial cds.
NM_014462	LSM1	NP_055277	Homo sapiens LSM1 homolog, U6 small nuclear RNA associated (S. cerevisiae) (LSM1), mRNA.

Figure 15

Gene Symbol		Nucleotide Sequence Description	
GenBank Accession for mRNA	GenBank Accession for Protein		
AB014564	KIAA0664	Homo sapiens mRNA for KIAA0664 protein, partial cds.	
NM_001253	CDC5L	Homo sapiens CDC5 cell division cycle 5-like (S. pombe) (CDC5L), mRNA.	
NM_001991	EZH1	Homo sapiens enhancer of zeste homolog 1 (Drosophila) (EZH1), mRNA.	
NM_001090	ABCF1	Homo sapiens ATP-binding cassette, sub-family F (GCN20), member 1 (ABCF1), mRNA.	
NM_000061	BTX	Homo sapiens Bruton agammaglobulinemia tyrosine kinase (BTX), mRNA.	
AB020657	KIAA0850	Homo sapiens mRNA for KIAA0850 protein, partial cds.	
NM_032390	MKI67IP	Homo sapiens MKI67 (FHA domain) interacting nucleolar phosphoprotein (MKI67IP), mRNA.	
NM_030980	FLJ12671	Homo sapiens hypothetical protein FLJ12671 (FLJ12671), mRNA.	
L_017827	SARS2	Homo sapiens seryl-tRNA synthetase 2 (SARS2), mRNA.	
L_066948	LOC139891	Homo sapiens similar to hypothetical protein BC011593 (LOC139891), mRNA.	
L_091974	LOC147891	Homo sapiens similar to hypothetical protein DKFZp434I1930 (H. sapiens) (LOC147891), mRNA.	
L_014060	MCTS1	Homo sapiens malignant T cell amplified sequence 1 (MCTS1), mRNA.	
L_000647	CCR2	Homo sapiens chemokine (C-C motif) receptor 2 (CCR2), transcript variant A, mRNA.	
L_001016	RPS12	Homo sapiens ribosomal protein S12 (RPS12), mRNA.	
NM_032359	MGC4308	Homo sapiens hypothetical protein MGC4308 (MGC4308), mRNA.	
NM_017736	FLJ20274	Homo sapiens hypothetical protein FLJ20274 (FLJ20274), mRNA.	
NM_006627	POP4	Homo sapiens processing of precursor 4, ribonuclease P/MRP subunit (S. cerevisiae) (POP4), mRNA.	
BC001050	NFATC3	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3, transcript variant 1, mRNA (cDNA clone MGC:1495 IMAGE:3505967), complete cds.	
NM_000344	SMN1	Homo sapiens survival of motor neuron 1, telomeric (SMN1), transcript variant d, mRNA.	

Figure 16 (1)

Gene Symbol		Nucleotide Sequence Description	
GenBank Accession for mRNA	GenBank Accession for Protein		
XM_094140	XP_094140	Homo sapiens similar to Apobec-1 complementation factor, APOBEC-1 stimulating protein (LOC166863), mRNA	
NM_005548	NP_005539	Homo sapiens lysyl-tRNA synthetase (KARS), mRNA	
NM_007235	NP_009166	Homo sapiens exportin, tRNA (nuclear export receptor for tRNAs) (XPOT), mRNA	
AF230402	AAG50181	Homo sapiens tripartite motif protein TRIM19 beta mRNA, complete cds.	
NM_003680	NP_003671	Homo sapiens tyrosyl-tRNA synthetase (YARS), mRNA	
XM_086419	XP_086419	Homo sapiens similar to pumilio homolog 1 (Drosophila) (H. sapiens) (LOC149092), mRNA	
NM_015629	NP_056444	Homo sapiens PRP31 pre-mRNA processing factor 31 homolog (yeast) (PRPF31), mRNA	
XM_067598	XP_067598	Homo sapiens similar to POLYADENYLATE-BINDING PROTEIN 2 (POLY(A) BINDING PROTEIN 2) (PABP 2) (LOC131898), mRNA	
U1255	AAF13034	Homo sapiens protein translation initiation factor 2C2 (EIF2C2) mRNA, partial cds.	
U8670	XP_086708	Homo sapiens similar to Splicing factor 3A subunit 3 (Spliceosome associated protein 61) (SAP 61) (SF3a60) (LOC149816), mRNA	
U00702	NP_008951	Homo sapiens U1-snRNP binding protein homolog (U1SNRNPBP), transcript variant 1, mRNA	
U01745	NP_059347	Homo sapiens staufen, RNA binding protein (Drosophila) (STAU), transcript variant T3, mRNA	
U00169	NP_001689	Homo sapiens AU RNA binding protein/enoyl-Coenzyme A hydratase (AUH), nuclear gene encoding mitochondrial protein, mRNA	
U00171	NP_001705	Homo sapiens Bicardal D homolog 1 (Drosophila) (BICD1), mRNA	
XM_066904	XP_066904	Homo sapiens similar to testes-specific heterogeneous nuclear ribonucleoprotein G-T (LOC139804), mRNA	
NM_004593	NP_004584	Homo sapiens splicing factor, arginine/serine-rich 10 (transformer 2 homolog, Drosophila) (SFRS10), mRNA	
AL117507	DKFZp434F1935	Homo sapiens mRNA; cDNA DKFZp434F1935 (from clone DKFZp434F1935); partial cds.	

Figure 16 (2)

Gene Symbol	GenBank Accession for mRNA	GenBank Accession for Protein	Nucleotide Sequence Description
	AB020657	KIAA0850	Homo sapiens mRNA for KIAA0850 protein, partial cds.
	AB033019	KIAA1193	Homo sapiens mRNA for KIAA1193 protein, partial cds.
	AF026564	RBMII	Homo sapiens RNA binding protein II (RBMII) gene, complete cds.
	AF165518	MAGOH	Homo sapiens MAGOH isoform (MAGOH) mRNA, complete cds.
	AF273304		Homo sapiens XPMC2 protein mRNA, complete cds.
	AL117507	DKFZp434F193	Homo sapiens mRNA; cDNA DKFZp434F1935 (from clone DKFZp434F1935); partial cds.
		5	
L01457		AAB59352	Homo sapiens (clone JH4B1) PM-scl autoantigen mRNA, complete cds.
NM_000455	STK11	NP_000446	Homo sapiens serine/threonine kinase 11 (Peutz-Jeghers syndrome) (STK11), mRNA.
NM_000982	RPL21	NP_000973	Homo sapiens ribosomal protein L21 (RPL21), mRNA.
NM_000996	RPL35A	NP_000987	Homo sapiens ribosomal protein L35a (RPL35A), mRNA.
NM_000999	RPL38	NP_000990	Homo sapiens ribosomal protein L38 (RPL38), mRNA.
NM_001004	RPLP2	NP_000995	Homo sapiens ribosomal protein, large P2 (RPLP2), mRNA.
NM_001011	RPS7	NP_001002	Homo sapiens ribosomal protein S7 (RPS7), mRNA.
...._001026	RPS24	NP_001017	Homo sapiens ribosomal protein S24 (RPS24), transcript variant 2, mRNA.
_001032	RPS29	NP_001023	Homo sapiens ribosomal protein S29 (RPS29), mRNA.
_001112	ADARB1	NP_001103	Homo sapiens adenosine deaminase, RNA-specific, B1 (RED1 homolog rat) (ADARB1), transcript variant DRADA2a, mRNA.
_001356	DDX3X	NP_001347	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked (DDX3X), transcript variant 2, mRNA.
_001357	DHX9	NP_001348	Homo sapiens DEAH (Asp-Glu-Ala-His) box polypeptide 9 (DHX9), transcript variant 1, mRNA.
_001618	ADPRT	NP_001609	Homo sapiens ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase) (ADPRT), mRNA.
_002520	NPM1	NP_002511	Homo sapiens nucleophosmin (nucleolar phosphoprotein B23, numatrin) (NPM1), mRNA.
_002967	SAFB	NP_002958	Homo sapiens scaffold attachment factor B (SAFB), mRNA.
_003133	SRP9	NP_003124	Homo sapiens signal recognition particle 9kDa (SRP9), mRNA.
NM_003429	ZNF85	NP_003420	Homo sapiens zinc finger protein 85 (HPF4, HTF1) (ZNF85), mRNA.
NM_003472	DEK	NP_003463	Homo sapiens DEK oncogene (DNA binding) (DEK), mRNA.
NM_003675	PRPF18	NP_003666	Homo sapiens PRP18 pre-mRNA processing factor 18 homolog (yeast) (PRPF18), mRNA.
NM_003895	SYNJ1	NP_003886	Homo sapiens synaptotagmin 1 (SYNJ1), transcript variant 1, mRNA.
NM_004169	SHMT1	NP_004160	Homo sapiens serine hydroxymethyltransferase 1 (soluble) (SHMT1), transcript variant 1, mRNA.
NM_004289	NFE2L3	NP_004280	Homo sapiens nuclear factor (erythroid-derived 2)-like 3 (NFE2L3), mRNA.
NM_004396	DDX5	NP_004387	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 5 (DDX5), mRNA.
NM_004990	MARS	NP_004981	Homo sapiens methionine-tRNA synthetase (MARS), mRNA.
NM_005083	U2AF1L1	NP_005074	Homo sapiens U2(RNU2) small nuclear RNA auxiliary factor 1-like 1 (U2AF1L1), mRNA.
NM_005548	KARS	NP_005539	Homo sapiens lysyl-tRNA synthetase (KARS), mRNA.
NM_006624	BS69	NP_006615	Homo sapiens adenovirus 5 E1A binding protein (BS69), mRNA.

Figure 17(11)

Gene Symbol		Nucleotide Sequence Description	
GenBank Accession for mRNA	GenBank Accession for Protein		
NM_007020	NP_008951	U1SNRNPBP	Homo sapiens U1-snRNP binding protein homolog (U1SNRNPBP), transcript variant 1, mRNA.
NM_007080	NP_009011	LSM6	Homo sapiens LSM6 homolog, U6 small nuclear RNA associated (S. cerevisiae) (LSM6), mRNA.
NM_007362	NP_031388	NCBP2	Homo sapiens nuclear cap binding protein subunit 2, 20kDa (NCBP2), mRNA.
NM_012255	NP_036387	XRN2	Homo sapiens 5'-3' exoribonuclease 2 (XRN2), mRNA.
NM_012423	NP_036555	RPL13A	Homo sapiens ribosomal protein L13a (RPL13A), mRNA.
NM_014977	NP_055792	ACINUS	Homo sapiens apoptotic chromatin condensation inducer in the nucleus (ACINUS), mRNA.
NM_015934	NP_057018	NOP5/NOP58	Homo sapiens nucleolar protein NOP5/NOP58 (NOP5/NOP58), mRNA.
NM_016480	NP_057564	PAIP2	Homo sapiens poly(A) binding protein interacting protein 2 (PAIP2), mRNA.
NM_017840	NP_060310	MRPL16	Homo sapiens mitochondrial ribosomal protein L16 (MRPL16), nuclear gene encoding mitochondrial protein, mRNA.
NM_018281	NP_060751	FLJ10948	Homo sapiens hypothetical protein FLJ10948 (FLJ10948), mRNA.
NM_018427	NP_060897	RRN3	Homo sapiens RNA polymerase I transcription factor RRN3 (RRN3), mRNA.
NM_018664	NP_061134	SNFT	Homo sapiens Jun dimerization protein p21SNFT (SNFT), mRNA.
NM_021104	NP_066927	RPL41	Homo sapiens ribosomal protein L41 (RPL41), mRNA.
_022551	NP_072045	RPS18	Homo sapiens ribosomal protein S18 (RPS18), mRNA.
_031210	NP_112487	DC50	Homo sapiens hypothetical protein DC50 (DC50), mRNA.
_001524	XP_001524	LOC151173	Homo sapiens similar to TAR DNA-binding protein-43 (TDP-43) (LOC151173), mRNA.
_016729	XP_016729	LOC157679	Homo sapiens similar to nuclear receptor coactivator 6 interacting protein (H. sapiens) (LOC157679), mRNA.
_031058	XP_031058	LOC147647	Homo sapiens similar to nucleolar protein interacting with the FHA domain of pKi-67 (H. sapiens) (LOC147647), mRNA.
_047920	XP_047920	LOC92906	Homo sapiens similar to Unknown (protein for IMAGE:3587716) (LOC92906), mRNA.
_058430	XP_058430	LOC119880	Homo sapiens similar to hypothetical protein similar to RNA-binding protein lark (LOC119880), mRNA.
_058943	XP_058943	LOC125925	Homo sapiens similar to R32611_1 (LOC125925), mRNA.
XM_059194	XP_059194	LOC127933	Homo sapiens hypothetical protein BC014917 (LOC127933), mRNA.
XM_059936	XP_059936	LOC138046	Homo sapiens similar to RNA-binding protein Raly (LOC138046), mRNA.
XM_060808	XP_060808	LOC128072	Homo sapiens similar to Vigilin (High density lipoprotein-binding protein) (HDL-binding protein) (LOC128072), mRNA.
XM_067452	XP_067452	LOC131596	Homo sapiens similar to splicing factor 3a, subunit 2, 66kD; Spliceosome protein SAP-62 (LOC131596), mRNA.
XM_068248	XP_068248	LOC133225	Homo sapiens similar to heterogeneous ribonuclear particle protein A1.beta - human (LOC133225), mRNA.
XM_068457	XP_068457	LOC133655	Homo sapiens similar to splicing coactivator subunit SRm300; RNA binding protein; AT-rich element binding factor; serine/arginine repetitive matrix 2 (LOC133655), mRNA.
XM_088640	XP_088640	LOC158685	Homo sapiens similar to bA353C18.3.2 (splicing factor CC1.3, isoform 2 (CC1.4)) (LOC158685), mRNA.

Figure 17 (2)

Gene Symbol		Nucleotide Sequence Description	
GenBank Accession for mRNA	GenBank Accession for Protein		
XM_093336 NM_000971	LOC165631 RPL7	XP_093336 NP_000962	mRNA. Homo sapiens similar to Eukaryotic translation initiation factor 4B (eIF-4B) (LOC165631), mRNA. Homo sapiens ribosomal protein L7 (RPL7), mRNA.

Figure 17(3)

Gene		Nucleotide Sequence Description	
GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein	
XM_091042	LOC16168 ₂	XP_091042	Homo sapiens similar to data source:MGD, source key:MGI:107795, evidence:ISS~heterogeneous nuclear ribonucleoprotein C~putative (LOC161682), mRNA.
XM_068433	LOC13361 ₆	XP_068433	Homo sapiens similar to Putative RNA-binding protein 15 (RNA binding motif protein 15) (One-twenty two protein) (LOC133616), mRNA.
XM_093259	LOC17033 ₀	XP_093259	Homo sapiens similar to RBM1 (LOC170330), mRNA.
XM_085059	LOC14522 ₃	XP_085059	Homo sapiens similar to Splicing factor 3B subunit 4 (Spliceosome associated protein 49) (SAP 49) (SF3b50) (Pre-mRNA splicing factor SF3b 49 kDa subunit) (LOC145223), mRNA.
AF121255	EIF2C2	AAF13034	Homo sapiens protein translation initiation factor 2C2 (EIF2C2) mRNA, partial cds.
NM_005664	MKRN3	NP_005655	Homo sapiens makorin, ring finger protein, 3 (MKRN3), mRNA.
NM_001357	DHX9	NP_001348	Homo sapiens DEAH (Asp-Glu-Ala-His) box polypeptide 9 (DHX9), transcript variant 1, mRNA.
NM_030941	LOC81691	NP_112203	Homo sapiens exonuclease NEF-sp (LOC81691), mRNA.
NM_014852	KIAA0682	NP_055667	Homo sapiens KIAA0682 gene product (KIAA0682), mRNA.
NM_000246	MHC2TA	NP_000237	Homo sapiens MHC class II transactivator (MHC2TA), mRNA.
JM_007165	SF3A2	NP_009096	Homo sapiens splicing factor 3a, subunit 2, 66kDa (SF3A2), mRNA.
JM_005384	NFIL3	NP_005375	Homo sapiens nuclear factor, interleukin 3 regulated (NFIL3), mRNA.
JM_018427	RRN3	NP_060897	Homo sapiens RNA polymerase I transcription factor RRN3 (RRN3), mRNA.
XM_060212	LOC12686 ₁	XP_060212	Homo sapiens similar to tudor repeat associator with PCTAIRE 2 (LOC126861), mRNA.
JM_004895	CIAS1	NP_004886	Homo sapiens cold autoinflammatory syndrome 1 (CIAS1), transcript variant 1, mRNA.
JM_003750	EIF3S10	NP_003741	Homo sapiens eukaryotic translation initiation factor 3, subunit 10 theta, 150/170kDa (EIF3S10), mRNA.
XM_092386	LOC16511 ₅	XP_092386	Homo sapiens similar to KIAA1841 protein (LOC165115), mRNA.
JM_007294	BRCA1	NP_009225	Homo sapiens breast cancer 1, early onset (BRCA1), transcript variant BRCA1a, mRNA.
NM_001991	EZH1	NP_001982	Homo sapiens enhancer of zeste homolog 1 (Drosophila) (EZH1), mRNA.
XM_010852	LOC15124 ₉	XP_010852	Homo sapiens similar to helix-destabilizing protein - rat (LOC151249), mRNA.
NM_002502	NFKB2	NP_002493	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100) (NFKB2), mRNA.
NM_000946	PRIM1	NP_000937	Homo sapiens primase, polypeptide 1, 49kDa (PRIM1), mRNA.
NM_006893	LGTN	NP_008824	Homo sapiens ligatin (LGTN), mRNA.
XM_094140	LOC16686 ₃	XP_094140	Homo sapiens similar to Apobec-1 complementation factor, APOBEC-1 stimulating protein (LOC166863), mRNA.
AF083441		AAD52028	Homo sapiens SUI1 isolog mRNA, complete cds.
XM_068457	LOC13365 ₅	XP_068457	Homo sapiens similar to splicing coactivator subunit SRM300; RNA binding protein; AT-rich element binding factor, serine/arginine repetitive matrix 2 (LOC133655), mRNA.

Figure 18 (1)

GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein	Nucleotide Sequence Description
NM_000125	ESR1	NP_000116	Homo sapiens estrogen receptor 1 (ESR1), mRNA
NM_015971	MRPS7	NP_057055	Homo sapiens mitochondrial ribosomal protein S7 (MRPS7), nuclear gene encoding mitochondrial protein, mRNA
NM_032514	MAP1LC3 A	NP_115903	Homo sapiens microtubule-associated protein 1 light chain 3 alpha (MAP1LC3A), transcript variant 1, mRNA
NM_004504	HRB	NP_004495	Homo sapiens HIV-1 Rev binding protein (HRB), mRNA
NM_001029	RPS26	NP_001020	Homo sapiens ribosomal protein S26 (RPS26), mRNA
NM_002535	OAS2	NP_002526	Homo sapiens 2'-5'-oligoadenylate synthetase 2, 69/71kDa (OAS2), transcript variant 2, mRNA
NM_003325	HIRA	NP_003316	Homo sapiens HIR histone cell cycle regulation defective homolog A (S. cerevisiae) (HIRA), mRNA

Figure 18(2)

Nucleotide Sequence Description		
GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein
XM_092652	LOC165534	XP_092652
NM_004705	PRKRIR	NP_004696
NM_001537	HSBP1	NP_001528
XM_070624	LOC137819	XP_070624
NM_006397	RNASEH2A	NP_006388
NM_012423	RPL13A	NP_036555
XM_085059	LOC145223	XP_085059
NM_003136	SRP54	NP_003127
XM_091653	LOC162582	XP_091653
NM_005657	TP53BP1	NP_005648
M_004491	GRLF1	NP_004482
M_007205	TREX2	NP_009136
M_006565	CTCF	NP_006556
AF026563	RBMII	
M_007297	BRCA1	NP_009228
M_004559	NSEP1	NP_004550
M_060358	LOC127164	XP_060358
M_003685	KHSRP	NP_003676
M_005115	MVP	NP_005106
M_002904	RDBP	NP_002895
M_005772	RCL1	NP_005763
X98494	mpp10	CAA67120
NM_015062	PPRC1	NP_055877
AF083441		AAD52028
XM_068457	LOC133655	XP_068457
AK000256		BAA91036
NM_004599	SREBF2	NP_004590
NM_005968	HNRPM	NP_005959
BC000138	HNRPM	AAH00138

Figure 19 (1)

Gene Symbol	GenBank Accession for mRNA	GenBank Accession for Protein	Nucleotide Sequence Description
MECP2	NM_004992	NP_004983	Homo sapiens methyl CpG binding protein 2 (Rett syndrome) (MECP2), mRNA.
BICD1	NM_001714	NP_001705	Homo sapiens Bicaudal D homolog 1 (Drosophila) (BICD1), mRNA.
EP400	NM_015409	NP_056224	Homo sapiens E1A binding protein p400 (EP400), mRNA.
HNRPC	BC007052	AAH07052	Homo sapiens heterogeneous nuclear ribonucleoprotein C (C1/C2), mRNA (cDNA clone MGC:12469 IMAGE:3686841), complete cds.
SF3B3	NM_012426	NP_036558	Homo sapiens splicing factor 3b, subunit 3, 130kDa (SF3B3), mRNA.
SFRS2	NM_003016	NP_003007	Homo sapiens splicing factor, arginine/serine-rich 2 (SFRS2), mRNA.
POLR2C	NM_002694	NP_002685	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide C, 33kDa (POLR2C), transcript variant alpha, mRNA.
ACO1	NM_002197	NP_002188	Homo sapiens aconitase 1, soluble (ACO1), mRNA.
H_YH95C04.1	AF075000	AAC28457	Homo sapiens full length insert cDNA YH95C04.
SF3A3	BC002395	AAH02395	Homo sapiens splicing factor 3a, subunit 3, 60kDa, mRNA (cDNA clone MGC:8445 IMAGE:2821350), complete cds.
LOC147774	U056568	XP_056568	Homo sapiens similar to KH-type splicing regulatory protein (FUSE binding protein 2) (H. sapiens) (LOC147774), mRNA.
EIF4EL3	U004846	NP_004837	Homo sapiens eukaryotic translation initiation factor 4E-like 3 (EIF4EL3), mRNA.
HNRPDL	U005463	NP_005454	Homo sapiens heterogeneous nuclear ribonucleoprotein D-like (HNRPDL), transcript variant 1, mRNA.
LOC132430	U067844	XP_067844	Homo sapiens similar to Polyadenylate-binding protein 4 (Poly(A)-binding protein 4) (PABP 4) (Inducible poly(A)-binding protein) (iPABP) (Activated-platelet protein-1) (APP-1) (LOC132430), mRNA.
PPIE	U006112	NP_006103	Homo sapiens peptidylprolyl isomerase E (cyclophilin E) (PPIE), transcript variant 1, mRNA.
MRPL16	U017840	NP_060310	Homo sapiens mitochondrial ribosomal protein L16 (MRPL16), nuclear gene encoding mitochondrial protein, mRNA.
DICER1	L030621	NP_085124	Homo sapiens Dicer1, Dcr-1 homolog (Drosophila) (DICER1), transcript variant 2, mRNA.
DDX6	L004397	NP_004388	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 6 (DDX6), mRNA.
HD	NM_002111	NP_002102	Homo sapiens huntingtin (Huntington disease) (HD), mRNA.
SFRS9	AL021546	CAA16498	Human DNA sequence from clone XX-15E1 on chromosome 12, complete sequence.
TRERF1	NM_033501	NP_277036	Homo sapiens transcriptional regulating factor 1 (TRERF1), transcript variant 2, mRNA.
IMP-1	BC012090	AAH12090	Homo sapiens, Similar to heterogeneous nuclear ribonucleoprotein A3, clone MGC:20045 IMAGE:4661041, mRNA, complete cds.
LOC134611	NM_006546	NP_006537	Homo sapiens IGF-II mRNA-binding protein 1 (IMP-1), mRNA.
TREX1	XM_068928	XP_068928	Homo sapiens similar to TAR DNA binding protein (LOC134611), mRNA.
TREX2	NM_016381	NP_057465	Homo sapiens three prime repair exonuclease 1 (TREX1), transcript variant 1, mRNA.
RAP1B	NM_017518	NP_059988	Homo sapiens three prime repair exonuclease 2 (TREX2), transcript variant 5, mRNA.
BRUNOL6	NM_015646	NP_056461	Homo sapiens RAP1B, member of RAS oncogene family (RAP1B), mRNA.
	NM_052840	NP_443072	Homo sapiens bruno-like 6, RNA binding protein (Drosophila) (BRUNOL6), mRNA.

Figure 19(2)

Nucleotide Sequence Description		
GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein
NM_001538	HSF4	NP_001529
XM_063246	LOC122663	XP_063246
XM_063244	LOC122661	XP_063244
AW607076		
NM_016816	OAS1	NP_058132
NM_004175	SNRPD3	NP_004166
AB020657	KIAA0850	BAA74873
BC000595	DDX17	AAH00595
XM_094158	LOC152994	XP_094158
NM_007204	DDX20	NP_009135
NM_006980	MTERF	NP_008911
A_006491	NOVA1	NP_006482
A_032102	SRP46	NP_115285
F035940	MAGOH	AAC39606
A_066948	LOC139891	XP_066948
A_007165	SF3A2	NP_009096
A_014223	NFYC	NP_055038
A_093219	LOC170270	XP_093219
A_002137	HNRPA2B1	NP_002128
~J252060	TRABID	CAB64449
NM_014977	ACINUS	NP_055792
XM_094555	LOC167540	XP_094555
XM_065946	LOC130900	XP_065946
AF005068	BRCA1	AAB61673
NM_012469	C20orf14	NP_036601
NM_004643	PABPN1	NP_004634
NM_003325	HIRA	NP_003316

1. 10 sapiens heat shock transcription factor 4 (HSF4), mRNA.
 2. Homo sapiens LOC122663 (LOC122663), mRNA.
 3. Homo sapiens similar to Nonsecretory ribonuclease precursor (Ribonuclease US) (Eosinophil-derived neurotoxin) (RNase Upl-2) (Ribonuclease 2) (RNase 2) (LOC122661), mRNA.
 4. PM0-HT0452-140100-002-e07 HT0452 Homo sapiens cDNA, mRNA sequence.
 5. Homo sapiens 2',5'-oligoadenylate synthetase 1, 40/46kDa (OAS1), transcript variant E18, mRNA.
 6. Homo sapiens small nuclear ribonucleoprotein D3 polypeptide 18kDa (SNRPD3), mRNA.
 7. Homo sapiens mRNA for KIAA0850 protein, partial cds.
 8. Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 17, mRNA (cDNA clone MGC:2030 IMAGE:3345982), complete cds.
 9. Homo sapiens similar to splicing factor 3a, subunit 2, 66kD; Spliceosome protein SAP-62 (LOC152994), mRNA.
 10. Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 20 (DDX20), mRNA.
 11. Homo sapiens transcription termination factor, mitochondrial (MTERF), nuclear gene encoding mitochondrial protein, mRNA.
 12. Homo sapiens neuro-oncological ventral antigen 1 (NOVA1), transcript variant 3, mRNA.
 13. Homo sapiens Splicing factor, arginine/serine-rich, 46kD (SRP46), mRNA.
 14. Homo sapiens MAGOH mRNA, complete cds.
 15. Homo sapiens similar to hypothetical protein BC011593 (LOC139891), mRNA.
 16. Homo sapiens splicing factor 3a, subunit 2, 66kDa (SF3A2), mRNA.
 17. Homo sapiens nuclear transcription factor Y, gamma (NFYC), mRNA.
 18. Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A3 homolog 2 (hnRNP A3(B)) (LOC170270), mRNA.
 19. Homo sapiens heterogeneous nuclear ribonucleoprotein A2/B1 (HNRPA2B1), transcript variant A2, mRNA.
 20. Homo sapiens mRNA for TRABID protein (TRABID gene).
 21. Homo sapiens apoptotic chromatin condensation inducer in the nucleus (ACINUS), mRNA.
 22. Homo sapiens similar to RIKEN cDNA C130020J04 (LOC167540), mRNA.
 23. Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A1 (Helix-destabilizing protein) (Single-strand binding protein) (hnRNP core protein A1) (HDP-1) (Topoisomerase-inhibitor suppressed) (LOC130900), mRNA.
 24. Homo sapiens breast and ovarian cancer susceptibility protein splice variant (BRCA1) mRNA, complete cds.
 25. Homo sapiens chromosome 20 open reading frame 14 (C20orf14), mRNA.
 26. Homo sapiens poly(A) binding protein, nuclear 1 (PABPN1), mRNA.
 27. Homo sapiens HIR histone cell cycle regulation defective homolog A (*S. cerevisiae*) (HIRA), mRNA.

Figure 1a(3)

GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein	Nucleotide Sequence Description
NM_019038	TDRD4	NP_061911	Homo sapiens tudor domain containing 4 (TDRD4), mRNA.
NM_025065	RPF1	NP_079341	Homo sapiens RNA processing factor 1 (RPF1), mRNA.
NM_005877	SF3A1	NP_005868	Homo sapiens splicing factor 3a, subunit 1, 120kDa (SF3A1), mRNA.
NM_002138	HNRPD	NP_002129	Homo sapiens heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa) (HNRPD), transcript variant 3, mRNA.
XM_058876	MGC49942	XP_058876	Homo sapiens hypothetical protein MGC49942 (MGC49942), mRNA.
NM_021976	RXRB	NP_068811	Homo sapiens retinoid X receptor, beta (RXRB), mRNA.
NM_003489	NRIP1	NP_003480	Homo sapiens nuclear receptor interacting protein 1 (NRIP1), mRNA.
M29916	RMRP		Human mitochondrial RNA-processing endoribonuclease RNA (mrp) gene; complete cds.
XM_066446	LOC139051	XP_066446	Homo sapiens similar to pol protein (LOC139051), mRNA.

Figure 19(4)

Nucleotide Sequence Description		
GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein
NM_007297	BRCA1	NP_009228
NM_022830	FLJ22347	NP_073741
NM_018722	HSA40461	NP_061192
XM_058876	MGC49942	XP_058876
NM_015698	T54	NP_056513
XM_060102	LOC12663	XP_060102
NM_013316	CNOT4	NP_037448
AB033019	KIAA1193	BAA86507
XM_067598	LOC13189	XP_067598
NM_000937	POLR2A	NP_000928
XM_087530	LOC15282	XP_087530
V_047272	LOC92781	XP_047272
V_090177	LOC16025	XP_090177
U252060	TRABID	CAB64449
V_007185	TNRC4	NP_009116
B036532	p53R2	BAA92493
V_005119	THRAP3	NP_005110
V_013235	RNASE3L	NP_037367
V_004175	SNRPD3	NP_004166
XM_066586	LOC13926	XP_066586
NM_018122	FLJ10514	NP_060592
NM_006540	NCOA2	NP_006531
BC004154	NR2F1	AAH04154
NM_006567	FARS1	NP_006558
XM_086792	LOC15015	XP_086792
AF084974	EXOI	AAD13754

Figure 20 (1)

Gene		Nucleotide Sequence Description	
GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein	
XM_064113	LOC12438	XP_064113	Homo sapiens LOC124380 (LOC124380), mRNA.
NM_002904	RDBP	NP_002895	Homo sapiens RD RNA binding protein (RDBP), mRNA.
NM_005463	HNRPD	NP_005454	Homo sapiens heterogeneous nuclear ribonucleoprotein D-like (HNRPD), transcript variant 1, mRNA.
NM_003244	TGIF	NP_003235	Homo sapiens TGFB-induced factor (TALE family homeobox) (TGIF), transcript variant 4, mRNA.
XM_070603	LOC13778	XP_070603	Homo sapiens similar to ANTIGEN GOR (LOC137784), mRNA.
NM_018415	TRERF1	NP_060885	Homo sapiens transcriptional regulating factor 1 (TRERF1), transcript variant 3, mRNA.
XM_065361	LOC12971	XP_065361	Homo sapiens similar to tudor protein (LOC129715), mRNA.
NM_020158	RRP46	NP_064543	Homo sapiens exosome component Rrp46 (RRP46), mRNA.
NM_004343	CALR	NP_004334	Homo sapiens calreticulin (CALR), mRNA.
NM_006112	PPIE	NP_006103	Homo sapiens peptidylprolyl isomerase E (cyclophilin E) (PPIE), transcript variant 1, mRNA.
NM_005877	SF3A1	NP_005868	Homo sapiens splicing factor 3a, subunit 1, 120kDa (SF3A1), mRNA.
_001714	BICD1	NP_001705	Homo sapiens Bicaudal D homolog 1 (Drosophila) (BICD1), mRNA.
_002467	MYC	NP_002458	Homo sapiens v-myc myelocytomatosis viral oncogene homolog (avian) (MYC), mRNA.
_014663	JMJD2A	NP_055478	Homo sapiens jumonji domain containing 2A (JMJD2A), mRNA.
_001436	FBL	NP_001427	Homo sapiens fibrillarin (FBL), mRNA.
_019038	TDRD4	NP_061911	Homo sapiens tudor domain containing 4 (TDRD4), mRNA.

Figure 20(2)

Nucleotide Sequence Description		
GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein
NM_013302	EEF2K	NP_037434
NM_017948	NOL8	NP_060418
XM_089332	LOC14938 2	XP_089332
AF001947	PRP3	AAC09069
AF062105	IGH	AAC18141
NM_004169	SHMT1	NP_004160
NM_000992	RPL29	NP_000983
XM_060808	LOC12807 2	XP_060808
NM_003902	FUBP1	NP_003893
XM_084392	LOC14296 6	XP_084392
^F391283	SSA1	AAK76432
^I_003325	HIRA	NP_003316
^I_070832	LOC13826 7	XP_070832
^I_088257	LOC15543 5	XP_088257
K021418		
J252060	TRABID	CAB64449
^I_014852	KIAA0682	NP_055667
^I_005870	SAP18	NP_005861
NM_005587	MEF2A	NP_005578
NM_016169	SUFU	NP_057253
XM_089062	LOC14886 6	XP_089062
NM_004875	POLR1C	NP_004866
AF129756		AAD18092
NM_014872	ZBTB5	NP_055687

Nucleotide Sequence Description

Homo sapiens elongation factor-2 kinase (EEF2K), mRNA.
Homo sapiens nucleolar protein 8 (NOL8), mRNA.
Homo sapiens similar to ribosomal protein L22 proprotein; 60S ribosomal protein L22; Epstein-Barr-encoded RNA-associated protein; Epstein-Barr virus small RNA-associated protein; EBER-associated protein; heparin-binding protein 15; heparin-binding protein HBp15... (LOC149382), mRNA.
Homo sapiens U4/U6-associated RNA splicing factor (PRP3) mRNA, complete cds.
Homo sapiens clone 21u-19 immunoglobulin heavy chain variable region (IGH) mRNA, partial cds.
Homo sapiens serine hydroxymethyltransferase 1 (soluble) (SHMT1), transcript variant 1, mRNA.
Homo sapiens ribosomal protein L29 (RPL29), mRNA.
Homo sapiens similar to Vigilin (High density lipoprotein-binding protein) (HDL-binding protein) (LOC128072), mRNA.
Homo sapiens far upstream element (FUSE) binding protein 1 (FUBP1), mRNA.
Homo sapiens region containing tudor; Ras homolog enriched in brain 2 (LOC142866), mRNA.
Homo sapiens 11p15.5 clone LOH11A, partial sequence.
Homo sapiens HIR histone cell cycle regulation defective homolog A (S. cerevisiae) (HIRA), mRNA.
Homo sapiens similar to hypothetical protein (LOC138267), mRNA.
Homo sapiens hypothetical protein LOC155435 (LOC155435), mRNA.
Homo sapiens cDNA FLJ11356 fis, clone HEMBA1000150, highly similar to Homo sapiens putative RNA helicase mRNA.
Homo sapiens mRNA for TRABID protein (TRABID gene).
Homo sapiens KIAA0682 gene product (KIAA0682), mRNA.
Homo sapiens sin3-associated polypeptide, 18kDa (SAP18), mRNA.
Homo sapiens MADS box transcription enhancer factor 2, polypeptide A (myocyte enhancer factor 2A) (MEF2A), mRNA.
Homo sapiens suppressor of fused homolog (Drosophila) (SUFU), mRNA.
Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (LOC148866), mRNA.
Homo sapiens polymerase (RNA) I polypeptide C, 30kDa (POLR1C), transcript variant 2, mRNA.
Homo sapiens MSH55 gene, partial cds; and CLIC1, DDAH, G6b, G6c, G6d, G6e, G6f, BAT5, G5b, CSK2B, BAT4, G4, Apo M, BAT3, BAT2, AIF-1, 1C7, LST-1, LTB, TNF, and LTA genes, complete cds.
Homo sapiens zinc finger and BTB domain containing 5 (ZBTB5), mRNA.

Figure 21(1)

Nucleotide Sequence Description		
GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein
NM_015629	PRPF31	Homo sapiens PRP31 pre-mRNA processing factor 31 homolog (yeast) (PRPF31), mRNA.
NM_017921	NPL4	Homo sapiens hypothetical protein FLJ20657 (NPL4), mRNA.
NM_002534	OAS1	Homo sapiens 2',5'-oligoadenylate synthetase 1, 40/46kDa (OAS1), transcript variant E16, mRNA.
AF083441		Homo sapiens SU11 isolog mRNA, complete cds.
AF026563	RBM11	Homo sapiens RBM11 gene, exon 6.
NM_012330	MYST4	Homo sapiens MYST histone acetyltransferase (monocytic leukemia) 4 (MYST4), mRNA.
NM_003298	NR2C2	Homo sapiens nuclear receptor subfamily 2, group C, member 2 (NR2C2), mRNA.
XM_061319	LOC119177	Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (LOC119177), mRNA.
XM_091974	LOC147891	Homo sapiens similar to hypothetical protein DKFZp434I1930 (H. sapiens) (LOC147891), mRNA.
NM_032102	SRP46	Homo sapiens Splicing factor, arginine/serine-rich, 46kD (SRP46), mRNA.
NM_052879	LOC113251	Homo sapiens c-Mpl binding protein (LOC113251), transcript variant 1, mRNA.
U_019038	TDRD4	Homo sapiens tudor domain containing 4 (TDRD4), mRNA.
U_000991	RPL28	Homo sapiens ribosomal protein L28 (RPL28), mRNA.
U_006893	LGTM	Homo sapiens ligatin (LGTM), mRNA.
U_060102	LOC126635	Homo sapiens LOC126635 (LOC126635), mRNA.
U_025065	RPF1	Homo sapiens RNA processing factor 1 (RPF1), mRNA.
U_004774	PPARBP	Homo sapiens PPAR binding protein (PPARBP), mRNA.
U_022767	FLJ12484	Homo sapiens hypothetical protein FLJ12484 (FLJ12484), mRNA.
U_007165	SF3A2	Homo sapiens splicing factor 3a, subunit 2, 66kDa (SF3A2), mRNA.
U_068248	LOC133225	Homo sapiens similar to heterogeneous ribonuclear particle protein A1.beta - human (LOC133225), mRNA.
NM_004039	ANXA2	Homo sapiens annexin A2 (ANXA2), mRNA.

Figure 21(2)

Gene Symbol		Nucleotide Sequence Description	
GenBank Accession for mRNA	GenBank Accession for Protein		
NM_007375	NP_031401	Homo sapiens TAR DNA binding protein (TARDBP), mRNA.	
NM_000978	NP_000969	Homo sapiens ribosomal protein L23 (RPL23), mRNA.	
NM_005035	NP_005026	Homo sapiens polymerase (RNA) mitochondrial (DNA directed) (POLRMT), nuclear gene encoding mitochondrial protein, mRNA.	
NM_018723	NP_061193	Homo sapiens ataxin 2-binding protein 1 (A2BP1), transcript variant 4, mRNA.	
NM_031274	NP_112564	Homo sapiens testis expressed sequence 13A (TEX13A), mRNA.	
NM_019037	NP_061910	Homo sapiens exosome complex exonuclease RRP41 (RRP41), mRNA.	
NM_002938	NP_002929	Homo sapiens ring finger protein 4 (RNF4), mRNA.	
NM_016024	NP_057108	Homo sapiens CGI-79 protein (CGI-79), mRNA.	
NM_000980	NP_000971	Homo sapiens ribosomal protein L18a (RPL18A), mRNA.	
NM_005642	NP_005633	Homo sapiens TAF7 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 55kDa (TAF7), mRNA.	
XM_094555	XP_094555	Homo sapiens similar to RIKEN cDNA C130020J04 (LOC167540), mRNA.	
NM_020967	NP_066018	Homo sapiens nuclear receptor coactivator 5 (NCOA5), mRNA.	
006209	NP_006200	Homo sapiens ectonucleotide pyrophosphatase/phosphodiesterase 2 (autotaxin) (ENPP2), mRNA.	
015934	NP_057018	Homo sapiens nucleolar protein NOP5/NOP58 (NOP5/NOP58), mRNA.	
003170	NP_003161	Homo sapiens suppressor of Ty 6 homolog (S. cerevisiae) (SUPT6H), mRNA.	
005772	NP_005763	Homo sapiens RNA terminal phosphate cyclase-like 1 (RCL1), mRNA.	
063346	XP_063346	Homo sapiens similar to polypyrimidine-tract binding protein (LOC122888), mRNA.	
026126	AAC23476	Homo sapiens heterogeneous nuclear ribonucleoprotein D (HNRPD) gene, complete cds.	
000989	NP_000980	Homo sapiens ribosomal protein L30 (RPL30), mRNA.	
267533	AAF78955	Homo sapiens CUG-binding protein LYQ-isoform mRNA, complete cds.	
004491	NP_004482	Homo sapiens glucocorticoid receptor DNA binding factor 1 (GRLF1), transcript variant 2, mRNA.	
005336	NP_005327	Homo sapiens high density lipoprotein binding protein (vigilin) (HDLBP), mRNA.	
.....001970	NP_001961	Homo sapiens eukaryotic translation initiation factor 5A (EIF5A), mRNA.	
XM_062603	XP_062603	Homo sapiens similar to ITBA4 PROTEIN (H. sapiens) (LOC121372), mRNA.	
XM_001524	XP_001524	Homo sapiens similar to TAR DNA-binding protein-43 (TDP-43) (LOC151173), mRNA.	
XM_084392	XP_084392	Homo sapiens region containing tudor; Ras homolog enriched in brain 2 (LOC142966), mRNA.	
NM_014281	NP_055096	Homo sapiens fuse-binding protein-interacting repressor (SIAHBP1), transcript variant 2, mRNA.	
NM_016505	NP_057589	Homo sapiens putative S1 RNA binding domain protein (PS1D), mRNA.	
NM_004600	NP_004591	Homo sapiens Sjogren syndrome antigen A2 (60kDa, ribonucleoprotein autoantigen SS-A/Ro) (SSA2), mRNA.	
NM_003091	NP_003082	Homo sapiens small nuclear ribonucleoprotein polypeptides B and B1 (SNRBP), transcript variant 2, mRNA.	
NM_006862	NP_006853	Homo sapiens tudor and KH domain containing (TDRKH), mRNA.	
NM_015156	NP_055971	Homo sapiens REST corepressor (RCOR), mRNA.	

Figure 22 (1)

Gene Symbol		Nucleotide Sequence Description	
GenBank Accession for mRNA	GenBank Accession for Protein		
NM_018387	NP_060857	Homo sapiens spermatid perinuclear RNA binding protein (STRBP), mRNA.	
NM_003787	NP_003778	Homo sapiens nucleolar protein 4 (NOL4), mRNA.	
NM_001356	NP_001347	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked (DDX3X), transcript variant 2, mRNA.	
NM_012330	NP_036462	Homo sapiens MYST histone acetyltransferase (monocytic leukemia) 4 (MYST4), mRNA.	
NM_007367	NP_031393	Homo sapiens RNA binding protein (autoantigenic, hnRNP-associated with lethal yellow) (RALY), transcript variant 2, mRNA.	
NM_005548	NP_005539	Homo sapiens lysyl-tRNA synthetase (KARS), mRNA.	
NM_001436	NP_001427	Homo sapiens fibrillarin (FBL), mRNA.	
NM_012279	NP_036411	Homo sapiens double-stranded RNA-binding zinc finger protein JAZ (JAZ), mRNA.	
NM_002296	NP_002287	Homo sapiens lamin B receptor (LBR), transcript variant 1, mRNA.	
NM_001071	NP_001062	Homo sapiens thymidylate synthetase (TYMS), mRNA.	
XM_062601	XP_062601	Homo sapiens similar to RBM1 (LOC121365), mRNA.	
NM_000982	NP_000973	Homo sapiens ribosomal protein L21 (RPL21), mRNA.	
_058819	XP_058819	Homo sapiens musashi homolog 2 (Drosophila) (MSI2), mRNA.	
_084625	XP_084625	Homo sapiens similar to coactivator activator (LOC143763), mRNA.	
_000971	NP_000962	Homo sapiens ribosomal protein L7 (RPL7), mRNA.	
_049523	AAC27501	Homo sapiens huntingtin-interacting protein HYPABFBP11 (HYPA) mRNA, partial cds.	
_000990	NP_000981	Homo sapiens ribosomal protein L27a (RPL27A), mRNA.	
_001031	NP_001022	Homo sapiens ribosomal protein S28 (RPS28), mRNA.	
_001021	NP_001012	Homo sapiens ribosomal protein S17 (RPS17), mRNA.	
_017993	NP_060463	Homo sapiens hypothetical protein FLJ10094 (FLJ10094), mRNA.	
_003651	NP_003642	Homo sapiens cold shock domain protein A (CSDA), mRNA.	
_001714	NP_001705	Homo sapiens Bicaudal D homolog 1 (Drosophila) (BICD1), mRNA.	
_033360	NP_203524	Homo sapiens v-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog (KRAS2), transcript variant a, mRNA.	
L13848	AAB48855	Human RNA helicase A mRNA, complete cds.	
BC004154	AAH04154	Homo sapiens nuclear receptor subfamily 2, group F, member 1, mRNA (cDNA clone MGC:2388 IMAGE:2824138), complete cds.	
NM_016304	NP_057388	Homo sapiens chromosome 15 open reading frame 15 (C15orf15), mRNA.	
NM_022551	NP_072045	Homo sapiens ribosomal protein S18 (RPS18), mRNA.	
NM_003244	NP_003235	Homo sapiens TGFB-induced factor (TALE family homeobox) (TGIF), transcript variant 4, mRNA.	
NM_003095	NP_003086	Homo sapiens small nuclear ribonucleoprotein polypeptide F (SNRPF), mRNA.	
NM_003017	NP_003008	Homo sapiens splicing factor, arginine/serine-rich 3 (SFRS3), mRNA.	
NM_033246	NP_150249	Homo sapiens promyelocytic leukemia (PML), transcript variant 7, mRNA.	
NM_003754	NP_003745	Homo sapiens eukaryotic translation initiation factor 3, subunit 5 epsilon, 47kDa (EIF3S5), mRNA.	

Figure 22 (2)

Gene Symbol		Nucleotide Sequence Description	
GenBank Accession for mRNA	GenBank Accession for Protein		
XM_012968	LOC151921	XP_012968	Homo sapiens similar to chromosome 20 open reading frame 14; putative mitochondrial outer membrane protein import receptor, similar to yeast pre-mRNA splicing factors, Prp1/Zer and Prp6 (LOC151921), mRNA.
NM_004593	SFRS10	NP_004584	Homo sapiens splicing factor, arginine/serine-rich 10 (transformer 2 homolog, Drosophila) (SFRS10), mRNA.
NM_017489	TERF1	NP_059523	Homo sapiens telomeric repeat binding factor (NIMA-interacting) 1 (TERF1), transcript variant 1, mRNA.
NM_020143	LOC56902	NP_064528	Homo sapiens putative 28 kDa protein (LOC56902), mRNA.
XM_067072	LOC140098	XP_067072	Homo sapiens similar to RBM1 (LOC140098), mRNA.
XM_059656	LOC133522	XP_059656	Homo sapiens similar to PGC-1 related co-activator (LOC133522), mRNA.
X99302	pop1	CAA67684	H.sapiens mRNA for Pop1 protein.
AL080063	DKFZp564I052	CAB45694	Homo sapiens mRNA; cDNA DKFZp564I052 (from clone DKFZp564I052).
NM_006112	PPIE	NP_006103	Homo sapiens peptidylprolyl isomerase E (cyclophilin E) (PPIE), transcript variant 1, mRNA.
_005826	HNRPR	NP_005817	Homo sapiens heterogeneous nuclear ribonucleoprotein R (HNRPR), mRNA.
_003819	PABPC4	NP_003810	Homo sapiens poly(A) binding protein, cytoplasmic 4 (inducible form) (PABPC4), mRNA.
_003690	PRKRA	NP_003681	Homo sapiens protein kinase, interferon-inducible double stranded RNA dependent activator (PRKRA), mRNA.
_001488	TADA2L	NP_001479	Homo sapiens transcriptional adaptor 2 (ADA2 homolog, yeast)-like (TADA2L), transcript variant 1, mRNA.
_058653	LOC122651	XP_058653	Homo sapiens LOC122651 (LOC122651), mRNA.
_004953	EIF4G1	NP_004944	Homo sapiens eukaryotic translation initiation factor 4 gamma, 1 (EIF4G1), transcript variant 5, mRNA.
_088868	LOC163412	XP_088868	Homo sapiens LOC163412 (LOC163412), mRNA.
_021038	MBNL1	NP_066368	Homo sapiens muscleblind-like (Drosophila) (MBNL1), mRNA.
_017736	FLJ20274	NP_060206	Homo sapiens hypothetical protein FLJ20274 (FLJ20274), mRNA.
NM_006451	PAIP1	NP_006442	Homo sapiens poly(A) binding protein interacting protein 1 (PAIP1), transcript variant 1, mRNA.
NM_004501	HNRPU	NP_004492	Homo sapiens heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A) (HNRPU), transcript variant 2, mRNA.
NM_001412	EIF1A	NP_001403	Homo sapiens eukaryotic translation initiation factor 1A (EIF1A), mRNA.
AB014564	KIAA0664	BAA31639	Homo sapiens mRNA for KIAA0664 protein, partial cds.
D80007	KIAA0185	BAA11502	Homo sapiens KIAA0185 mRNA, complete cds.
NM_004184	WARS	NP_004175	Homo sapiens tryptophanyl-tRNA synthetase (WARS), mRNA.
NM_019038	TDRD4	NP_061911	Homo sapiens tudor domain containing 4 (TDRD4), mRNA.
NM_030621	DICER1	NP_085124	Homo sapiens Dicer1, Dcr-1 homolog (Drosophila) (DICER1), transcript variant 2, mRNA.
AF167570		AAD51099	Homo sapiens nuclear factor associated with dsRNA NFAR-2 mRNA, complete cds.
NM_005872	BCAS2	NP_005863	Homo sapiens breast carcinoma amplified sequence 2 (BCAS2), mRNA.

Figure 22 (3)

Gene Symbol		Nucleotide Sequence Description	
GenBank Accession for mRNA	GenBank Accession for Protein		
D82351	BAA11561	Human retropseudogene MSSP-1 DNA, complete cds.	
NM_004990	NP_004981	Homo sapiens methionine-tRNA synthetase (MARS), mRNA.	
NM_006842	NP_006833	Homo sapiens splicing factor 3b, subunit 2, 145kD (SF3B2), mRNA	
NM_017840	NP_060310	Homo sapiens mitochondrial ribosomal protein L16 (MRPL16), nuclear gene encoding mitochondrial protein, mRNA	

Figure 22(4)

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank		Description
		Accession Number	or Manufacturer	
		Sequence	Reference	
AB000280	PHT1	BAA20489		Rattus norvegicus mRNA for peptide/histidine transporter, complete cds.
AB011679		BAA32736		Rattus norvegicus mRNA for class I beta-tubulin, complete cds.
AB017265		BAA82585		Rattus norvegicus gene for glycosylphosphatidylinositol anchor attachment 1 (GPAA1), partial cds.
AB018253		BAA76556		Rattus norvegicus mRNA for voltage-gated ca channel, complete cds.
AB045586	cnr5	BAB61764		Rattus norvegicus cnr5 mRNA for cadherin-related neuronal receptor 5, partial cds.
AB047324	TAT1	BAB55595		Rattus norvegicus TAT1 mRNA, complete cds.
AB054997		BAB62175		Rattus norvegicus mRNA for QKI, partial cds.
AF003187		AAB60895		Rattus norvegicus cocaine attenuated zinc-finger protein mRNA, partial cds.
AF022089		AAB82556		Rattus norvegicus guanine nucleotide binding protein gamma 4 subunit mRNA, partial cds.
AF022091		AAB82558		Rattus norvegicus guanine nucleotide binding protein gamma 12 subunit mRNA, partial cds.
AF028604	P2X2	AAC72286		Rattus norvegicus P2X2 purinoceptor isoform f (P2X2) mRNA, partial cds.
AF035952	Krp3a	AAB88700		Rattus norvegicus kinesin-related protein 3A (Krp3a) mRNA, partial cds.
AF050159	IRS-2	AAC05512		Rattus norvegicus insulin receptor substrate 2 (IRS-2) mRNA, partial cds.
AF061443	LGR4	AAC77910		Rattus norvegicus G protein-coupled receptor LGR4 (LGR4) mRNA, complete cds.
AF079162	plc	AAC99398		Rattus norvegicus patched (plc) mRNA, partial cds.
AF083418	IRS-2	AAC33346		Rattus norvegicus insulin receptor substrate-2 (IRS-2) mRNA, partial cds.
AF087674	IRS-2	AAC36726		Rattus norvegicus insulin receptor substrate 2 (IRS-2) mRNA, partial cds.
AF102262	beta1-4GT	AAD41721		Rattus norvegicus N-acetylglucosamine galactosyltransferase (beta1-4GT) mRNA, partial cds.
AF109644	CAR1	AAF01255		Rattus norvegicus coxsackie-adenovirus-receptor homolog (CAR1) mRNA, partial cds.
AF130341	MT1	AAG18471		Rattus norvegicus melatonin receptor (MT1) mRNA, partial cds.
AF136231		AAD33684		Rattus norvegicus caspase-2 mRNA, complete cds.
AF148323	APPILS	AAF73106		Rattus norvegicus aminopeptidase PILS (APPILS) mRNA, complete cds.
AF159049		AAF80364		Rattus norvegicus angiotensin II type 1A receptor associated protein mRNA, complete cds.
AF186469	TM6P1	AAF01324		Rattus norvegicus TM6P1 (TMSP1) mRNA, complete cds.
AF189261	Theta	AAF70382		Rattus norvegicus GABA-A receptor theta subunit (Theta) mRNA, partial cds.

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank		Description
		Accession Number or Manufacturer Sequence Reference		
AF195045		AAF28720		Rattus norvegicus TRC8 gene, partial cds.
AF200359		AAF67072	Uggt	Rattus norvegicus UDP-glucose glycoprotein:glucosyltransferase precursor (Uggt) mRNA, complete cds.
AF228043		AAF76422		Rattus norvegicus nuclear hormone receptor co-regulator/co-activator mRNA, partial cds.
AF239219		AAK15063	Pgl2	Rattus norvegicus prostaglandin transporter subtype 2 (Pgl2) mRNA, complete cds.
AF244920		AAF44715		Rattus norvegicus potassium channel regulatory factor mRNA, complete cds.
AF260582		AAK49395		Rattus norvegicus hippyragranin mRNA, complete cds.
AF268030		AAF72546		Rattus norvegicus copper transporter 1 mRNA, complete cds.
AF273024		AAF81786		Rattus norvegicus amino acid system A transporter mRNA, complete cds.
AF352172		AAK32708		Rattus norvegicus v-rai murine sarcoma viral oncogene B1-like protein mRNA, partial cds.
AF361239		AAK67316		Rattus norvegicus lysosomal amino acid transporter 1 mRNA, complete cds.
AF385409	Elf5a2	AAL40650		Rattus norvegicus eukaryotic translation initiation factor 5A isoform II (Elf5a2) gene, exons 2 and 3 and partial cds.
AF385833		AAK66567		Rattus norvegicus RAC1 mRNA, partial cds.
AF406814		AAK96221		Rattus norvegicus clone PLRR-4 polymorphic leucine-rich repeat protein mRNA, complete cds.
AF439397	Sip30	AAL35221		Rattus norvegicus SNAP25 interacting protein 30 (Sip30) mRNA, complete cds.
AF441118	Bnip3l	AAL32462		Rattus norvegicus BNIP3L protein (Bnip3l) mRNA, complete cds.
AF442357		AAL35353		Rattus norvegicus reticulon 3 protein isoform a mRNA, complete cds; alternatively spliced.
AJ131111	LANCL1	CAB63943		Rattus sp. mRNA lanthionine synthetase C-like protein 1 (LANCL1 gene).
AJ224156		CAA11853		Rattus norvegicus mRNA for ceramide glucosyltransferase.
AJ243395	scn3b	CAB76838		Rattus norvegicus mRNA for voltage-gated sodium channel beta-3 subunit.
AY012054	Zfx	AAG38797		Rattus norvegicus zinc finger protein ZFX (Zfx) gene, partial cds.
D14418	PP2A ARa	BAA21903		Rattus norvegicus PP2A ARa mRNA for A regulatory subunit of protein phosphatase 2A, partial cds.
D16479	RTP-beta	BAA03940		Rat mRNA for mitochondrial long-chain 3-ketoacyl-CoA thiolase beta-subunit of mitochondrial trifunctional protein, complete cds.
D17521	CIC-3	BAA04471		Rattus rattus CIC-3 mRNA for protein kinase C-regulated chloride channel, complete cds.

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank		Description
		Accession Number or Manufacturer Sequence Reference		
D25233		BAA04958		Rattus norvegicus mRNA for retinoblastoma protein, partial sequence.
J02934		AAA41856		Rat cAMP-dependent protein kinase type II regulatory subunit mRNA, 3' end.
J04963		AAA41104		Rat ecto-ATPase mRNA, complete cds.
L09752	VIN1	AAA41010		Rat cyclin D2 (VIN1) mRNA, complete cds.
L10639	ActRII	AAA40674		Rat activin type II receptor (ActRII) mRNA, 5' end of cds.
L12382		AAA40687		Rattus norvegicus ADP-ribosylation factor 3 mRNA, complete cds.
L22761	GATA-GT2	AAA16159		Rat DNA binding protein (GATA-GT2) mRNA, complete cds.
M18331		AAA41872		Rat protein kinase C epsilon subspecies.
M18769		AAA41196		Rat liver beta-galactoside alpha 2,6-sialyltransferase mRNA, complete cds.
M19042		AAA41626		Rat proviral Moloney murine leukemia mutant in 594-2 DNA, partial cds.
M24353		AAA66457		Rattus norvegicus alpha-mannosidase II mRNA, partial cds.
M32973		AAA41639		Rat mitochondrial solute carrier protein mRNA, 5' end.
M34083		AAA79273		Rat lactogen receptor mRNA, complete cds.
M35965		AAA42089		Rat thyroglobulin (rTg-2) mRNA, complete cds.
M55292	trkB	AAA42280		Rat neural receptor protein-tyrosine kinase (trkB) mRNA, complete cds.
NM_012506	Alp1a3	NP_036638		Rattus norvegicus ATPase, Na+/K+ transporting, alpha 3 polypeptide (Alp1a3), mRNA.
NM_012551	Egr1	NP_036683		Rattus norvegicus early growth response 1 (Egr1), mRNA.
NM_012563	Gad2	NP_036695		Rattus norvegicus glutamate decarboxylase 2 (Gad2), mRNA.
NM_012569	Gls	NP_036701		Rattus norvegicus glutaminase (Gls), mRNA.
NM_012609	Nf1	NP_036741		Rattus norvegicus neurofibromatosis 1 (Nf1), mRNA.
NM_012637	Ptpn1	NP_036769		Rattus norvegicus protein tyrosine phosphatase, non-receptor type 1 (Ptpn1), mRNA.
NM_012649	Sdc4	NP_036781		Rattus norvegicus syndecan 4 (Sdc4), mRNA.
NM_012655	Sp1	NP_036787		Rattus norvegicus Sp1 transcription factor (Sp1), mRNA.
NM_012663	Vamp2	NP_036795		Rattus norvegicus vesicle-associated membrane protein 2 (Vamp2), mRNA.
NM_012713	Prkcb1	NP_036845		Rattus norvegicus protein kinase C, beta 1 (Prkcb1), mRNA.

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Protein Product		Description
	Gene Name or Manufacturer Probe Name	GeneBank	
		Accession Number or Manufacturer Sequence Reference	
NM_012794	Glycam1	NP_036926	Rattus norvegicus glycosylation dependent cell adhesion molecule 1 (Glycam1), mRNA.
NM_012799	Nmbr	NP_036931	Rattus norvegicus neuromedin B receptor (Nmbr), mRNA.
NM_012806	Mapk10	NP_036938	Rattus norvegicus mitogen activated protein kinase 10 (Mapk10), mRNA.
NM_012836	Cpd	NP_036968	Rattus norvegicus carboxypeptidase D (Cpd), mRNA.
NM_012863	Mist1	NP_036995	Rattus norvegicus muscle, intestine and stomach expression 1 (Mist1), mRNA.
NM_012879	Slc2a2	NP_037011	Rattus norvegicus solute carrier family 2, member 2 (Slc2a2), mRNA.
NM_012919	Cacna2d1	NP_037051	Rattus norvegicus calcium channel, voltage-dependent, alpha2/delta subunit 1 (Cacna2d1), mRNA.
NM_012948	Emd	NP_037080	Rattus norvegicus emerin (Emd), mRNA.
NM_012998	P4hb	NP_037130	Rattus norvegicus prolyl 4-hydroxylase, beta polypeptide (P4hb), mRNA.
NM_013029	Siaf8c	NP_037161	Rattus norvegicus sialyltransferase 8 C (Siaf8c), mRNA.
NM_013038	Sxbp1	NP_037170	Rattus norvegicus syntaxin binding protein 1 (Sxbp1), mRNA.
NM_013080	Ptpnz1	NP_037212	Rattus norvegicus protein tyrosine phosphatase, receptor-type, Z polypeptide 1 (Ptpnz1), mRNA.
NM_013087	Cd81	NP_037219	Rattus norvegicus CD 81 antigen (Cd81), mRNA.
NM_013123	Il1r1	NP_037255	Rattus norvegicus interleukin 1 receptor, type I (Il1r1), mRNA.
NM_013159	Idc	NP_037291	Rattus norvegicus insulin degrading enzyme (Idc), mRNA.
NM_013181	Prkar1a	NP_037313	Rattus norvegicus protein kinase, cAMP dependent regulatory, type I, alpha (Prkar1a), mRNA.
NM_016999	Cyp4b1	NP_058695	Rattus norvegicus cytochrome P450, subfamily 4B, polypeptide 1 (Cyp4b1), mRNA.
NM_017065	Gabrb3	NP_058761	Rattus norvegicus gamma-aminobutyric acid receptor, subunit beta 3 (Gabrb3), mRNA.
NM_017091	Pcsk1	NP_058787	Rattus norvegicus proprotein convertase subtilisin/kexin type 1 (Pcsk1), mRNA.
NM_017135	Ak4	NP_058831	Rattus norvegicus adenylate kinase 4 (Ak4), mRNA.
NM_017197	Cugbp2	NP_058893	Rattus norvegicus CUG triplet repeat, RNA-binding protein 2 (Cugbp2), mRNA.
NM_017206	Slc6a6	NP_058902	Rattus norvegicus solute carrier family 6, member 6 (Slc6a6), mRNA.
NM_017231	Pitpn	NP_058927	Rattus norvegicus phosphatidylinositol transfer protein (Pitpn), mRNA.
NM_017269	Ptpnj	NP_058965	Rattus norvegicus protein tyrosine phosphatase, receptor type, J (Ptpnj), mRNA.
NM_017322	Mapk9	NP_059018	Rattus norvegicus stress activated protein kinase alpha II (Mapk9), mRNA.

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference		Description
NM_017323	Tr4	NP_059019	Rattus norvegicus TR4 orphan receptor (Tr4), mRNA.	
NM_017348	CHOT1	NP_059044	Rattus norvegicus choline transporter (CHOT1), mRNA.	
NM_019142	Prkaa1	NP_062015	Rattus norvegicus protein kinase, AMP-activated, alpha 1 catalytic subunit (Prkaa1), mRNA.	
NM_019166	Syng1	NP_062039	Rattus norvegicus synaptogyrin 1 (Syng1), mRNA.	
NM_019182	Rnf4	NP_062055	Rattus norvegicus ring finger protein 4 (Rnf4), mRNA.	
NM_019192	Sepp1	NP_062065	Rattus norvegicus selenoprotein P, plasma, 1 (Sepp1), mRNA.	
NM_019195	Cd47	NP_062068	Rattus norvegicus integrin-associated protein (Cd47), mRNA.	
NM_019248	Ntrk3	NP_062121	Rattus norvegicus neural receptor protein-tyrosine kinase (Ntrk3), mRNA.	
NM_019275	Madh4	NP_062148	Rattus norvegicus MAD homolog 4 (Drosophila) (Madh4), mRNA.	
NM_019354	Ucp2	NP_062227	Rattus norvegicus uncoupling protein 2 (Ucp2), mRNA.	
NM_019367	Ppt2	NP_062240	Rattus norvegicus palmitoyl-protein thioesterase 2 (Ppt2), mRNA.	
NM_019377	Ywhab	NP_062250	Rattus norvegicus tyrosine 3-monooxygenase/tylophphan 5 monooxygenase activation protein, beta polypeptide (Ywhab), mRNA.	
NM_021594	LOC59114	NP_067605	Rattus norvegicus ERM-binding phosphoprotein (LOC59114), mRNA.	
NM_021597	Gerp95	NP_067608	Rattus norvegicus GERP95 (Gerp95), mRNA.	
NM_021671	LOC59303	NP_067703	Rattus norvegicus db83 (LOC59303), mRNA.	
NM_021680	Nxph4	NP_067712	Rattus norvegicus neurexophilin 4 (Nxph4), mRNA.	
NM_021682	LOC59318	NP_067714	Rattus norvegicus kilon (LOC59318), mRNA.	
NM_021851	Lin7c	NP_068623	Rattus norvegicus lin-7-C (Lin7c), mRNA.	
NM_022005	Fxyd6	NP_071288	Rattus norvegicus FXYD domain-containing ion transport regulator 6 (Fxyd6), mRNA.	
NM_022208	Gtf2a1	NP_071544	Rattus norvegicus general transcription factor 2a, 1 (Gtf2a1), mRNA.	
NM_022223	Fgf14	NP_071559	Rattus norvegicus fibroblast growth factor 14 (Fgf14), mRNA.	
NM_022231	Birc4	NP_071567	Rattus norvegicus baculoviral IAP repeat-containing 4 (Birc4), mRNA.	
NM_022386	Matg	NP_071781	Rattus norvegicus v-maf musculoaponeurotic fibrosarcoma (avian) oncogene family, protein G (Matg), mRNA.	

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference		Description
		Pafah1b2	NP_071782	
NM_022387				Rattus norvegicus platelet-activating factor acetylhydrolase alpha 2 subunit (PAF-AH alpha 2) (Pafah1b2), mRNA.
NM_022396	Gng11	NP_071791		Rattus norvegicus guanine nucleotide binding protein gamma subunit 11 (Gng11), mRNA.
NM_022502	Ppt	NP_071947		Rattus norvegicus palmitoyl-protein thioesterase (Ppt), mRNA.
NM_022516	Ptb	NP_071961		Rattus norvegicus polypyrimidine tract binding protein (Ptb), mRNA.
NM_022522	Casp2	NP_071967		Rattus norvegicus caspase 2 (Casp2), mRNA.
NM_022548	PAG608	NP_071993		Rattus norvegicus p53-activated gene 608 (PAG608), mRNA.
A_022612	Bcl2l1	NP_072134		Rattus norvegicus BCL2-like 11 (apoptosis facilitator) (Bcl2l1), transcript variant 1, mRNA.
A_022619	Slc7a2	NP_072141		Rattus norvegicus solute carrier family 7, member 3 (Slc7a2), mRNA.
A_022673	Mecp2	NP_073164		Rattus norvegicus methyl CpG binding protein 2 (Mecp2), mRNA.
A_022799	Nucks	NP_073636		Rattus norvegicus nuclear ubiquitously casein kinase 2 (Nucks), mRNA.
A_022931	Nim3	NP_075220		Rattus norvegicus nim3 protein (Nim3), mRNA.
A_022950	C1galt1	NP_075239		Rattus norvegicus core1 UDP-galactose:N-acetylgalactosamine-alpha-R beta 1,3-galactosyltransferase (C1galt1) (C1galt1), mRNA.
M_023095	Mgat5	NP_075583		Rattus norvegicus N-acetylglucosaminyltransferase V (Mgat5), mRNA.
M_023956	Gucy1a2	NP_076446		Rattus norvegicus soluble guanylyl cyclase alpha2 subunit (Gucy1a2), mRNA.
M_023977	Gmx33	NP_076467		Rattus norvegicus trans-Golgi protein GMx33 (Gmx33), mRNA.
NM_023991	Prkaa2	NP_076481		Rattus norvegicus protein kinase, AMP-activated, alpha 2 catalytic subunit (Prkaa2), mRNA.
NM_024132	Faah	NP_077046		Rattus norvegicus fatty acid amide hydrolase (Faah), mRNA.
NM_024139	Chp	NP_077053		Rattus norvegicus calcium binding protein p22 (Chp), mRNA.
NM_024158	Dck	NP_077072		Rattus norvegicus deoxycytidine kinase (Dck), mRNA.
NM_024368	Frk	NP_077344		Rattus norvegicus src related tyrosine kinase (Frk), mRNA.
NM_024370	Gabrg3	NP_077346		Rattus norvegicus GABA-alpha receptor gamma-3 subunit (Gabrg3), mRNA.
NM_024374	Mtpn	NP_077350		Rattus norvegicus myotrophin (Mtpn), mRNA.
NM_030586	omb5	NP_085075		Rattus norvegicus cytochrome b5, outer mitochondrial membrane isoform (omb5), mRNA.

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank		Description
		Accession Number or Manufacturer Sequence Reference		
NM_030829	Gprk5	NP_110456		Rattus norvegicus G protein-coupled receptor kinase 5 (Gprk5), mRNA.
NM_030835	RAMP4	NP_110462		Rattus norvegicus ribosome associated membrane protein 4 (RAMP4), mRNA.
NM_030849	Bmpr1a	NP_110476		Rattus norvegicus bone morphogenetic protein receptor, type 1A (Bmpr1a), mRNA.
NM_030873	Pfn2	NP_110500		Rattus norvegicus profilin II (Pfn2), mRNA.
NM_030991	Snap25	NP_112253		Rattus norvegicus synaptosomal-associated protein (Snap25), mRNA.
NM_031011	Amd1	NP_112273		Rattus norvegicus S-adenosylmethionine decarboxylase 1 (Amd1), mRNA.
NM_031031	Gatm	NP_112293		Rattus norvegicus glycine amidinotransferase (L-arginine:glycine amidinotransferase) (Gatm), mRNA.
NM_031034	Gna12	NP_112296		Rattus norvegicus guanine nucleotide binding protein, alpha 12 (Gna12), mRNA.
NM_031036	Gnaq	NP_112298		Rattus norvegicus heterotrimeric guanine nucleotide-binding protein alpha q subunit (Gnaq), mRNA.
NM_031049	Lss	NP_112311		Rattus norvegicus 2,3-oxidosqualene: lanosterol cyclase (Lss), mRNA.
NM_031057	Mmsdh	NP_112319		Rattus norvegicus methylmalonate semialdehyde dehydrogenase gene (Mmsdh), mRNA.
NM_031061	Musk	NP_112323		Rattus norvegicus muscle, skeletal, receptor tyrosine kinase (Musk), mRNA.
NM_031079	Pde2a	NP_112341		Rattus norvegicus phosphodiesterase 2A, cGMP-stimulated (Pde2a), mRNA.
NM_031081	Pdpk1	NP_112343		Rattus norvegicus 3-phosphoinositide dependent protein kinase-1 (Pdpk1), mRNA.
NM_031120	Ssr3	NP_112382		Rattus norvegicus TRAP-complex gamma subunit (Ssr3), mRNA.
NM_031123	Stc1	NP_112385		Rattus norvegicus stanniocalcin 1 (Stc1), mRNA.
NM_031143	Dgkz	NP_112405		Rattus norvegicus diacylglycerol kinase zeta (Dgkz), mRNA.
NM_031152	Rab11a	NP_112414		Rattus norvegicus RAB11a, member RAS oncogene family (Rab11a), mRNA.
NM_031344	Fads2	NP_112634		Rattus norvegicus fatty acid desaturase 2 (Fads2), mRNA.
NM_031346	Rod1	NP_112636		Rattus norvegicus regulator of differentiation (in S. pombe) 1 (Rod1), mRNA.
NM_031515	Kras2	NP_113703		Rattus norvegicus Kirsten rat sarcoma viral oncogene homologue 2 (active) (Kras2), mRNA.
NM_031521	Ncam1	NP_113709		Rattus norvegicus neural cell adhesion molecule 1 (Ncam1), mRNA.
NM_031528	Rara	NP_113716		Rattus norvegicus retinoic acid receptor, alpha (Rara), mRNA.
NM_031575	Akt3	NP_113763		Rattus norvegicus thymoma viral proto-oncogene 3 (Akt3), mRNA.
NM_031593	Sv2c	NP_113781		Rattus norvegicus synaptic vesicle protein 2C (Sv2c), mRNA.

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank		Description
		Accession Number or Manufacturer Sequence Reference	Accession Number or Manufacturer Sequence Reference	
NM_031604	Alp6n1a	NP_113792	Rattus norvegicus ATPase, H+ transporting, lysosomal noncatalytic accessory protein 1a (Alp6n1a), mRNA.	
NM_031605	Cyp4a12	NP_113793	Rattus norvegicus cytochrome P450, 4a12 (Cyp4a12), mRNA.	
NM_031615	Znf148	NP_113803	Rattus norvegicus zinc finger protein 148 (Znf148), mRNA.	
NM_031726	Scamp5	NP_113914	Rattus norvegicus secretory carrier membrane protein 5 (Scamp5), mRNA.	
NM_031751	Shank1	NP_113939	Rattus norvegicus Shank1 (Shank1), mRNA.	
NM_031755	Ceacam1	NP_113943	Rattus norvegicus carcinoembryonic antigen-related cell adhesion molecule 1 (Ceacam1), mRNA.	
NM_031757	Mmp24	NP_113945	Rattus norvegicus matrix metalloproteinase 24 (membrane-inserted) (Mmp24), mRNA.	
NM_031785	Atp6s1	NP_113973	Rattus norvegicus ATPase, H+ transporting, lysosomal (vacuolar proton pump), subunit 1 (Atp6s1), mRNA.	
NM_031787	Hipk3	NP_113975	Rattus norvegicus homeodomain-interacting protein kinase 3 (Hipk3), mRNA.	
NM_031812	Cd164	NP_114000	Rattus norvegicus CD164 antigen (Cd164), mRNA.	
NM_031818	Clic4	NP_114006	Rattus norvegicus chloride intracellular channel 4 (Clic4), mRNA.	
NM_031828	Kcnma1	NP_114016	Rattus norvegicus potassium large conductance calcium-activated channel, subfamily M, alpha member 1 (Kcnma1), mRNA.	
NM_031841	Scd2	NP_114029	Rattus norvegicus stearyl-Coenzyme A desaturase 2 (Scd2), mRNA.	
NM_031986	Sdcbp	NP_114192	Rattus norvegicus syntenin (Sdcbp), mRNA.	
NM_032080	Gsk3b	NP_114469	Rattus norvegicus glycogen synthase kinase 3 beta (Gsk3b), mRNA.	
NM_032084	Chn2	NP_114473	Rattus norvegicus chimerin (chimaerin) 2 (Chn2), mRNA.	
NM_033376	Kcnk3	NP_203694	Rattus norvegicus potassium channel, subfamily K, member 3 (Kcnk3), mRNA.	
NM_052801	Vhl	NP_434688	Rattus norvegicus von Hippel-Lindau syndrome homolog (Vhl), mRNA.	
NM_053308	Fkbp2	NP_445760	Rattus norvegicus FK506 binding protein 2 (Fkbp2), mRNA.	
NM_053342	Idax	NP_445794	Rattus norvegicus inhibitor of the Dvl and Axin complex (Idax), mRNA.	
NM_053352	Rdc1	NP_445804	Rattus norvegicus chemokine orphan receptor 1 (Rdc1), mRNA.	
NM_053379	Dcx	NP_445831	Rattus norvegicus doublecortin (Dcx), mRNA.	
NM_053407	Asah	NP_445859	Rattus norvegicus N-acylsphingosine amidohydrolase (acid ceramidase) (Asah), mRNA.	
NM_053424	Sic4a4	NP_445876	Rattus norvegicus solute carrier family 4, member 4 (Sic4a4), mRNA.	

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank		Description
		Accession Number or Manufacturer Sequence Reference		
NM_053442	Slc7a8	NP_445894		Rattus norvegicus solute carrier family 7 (cationic amino acid transporter, y ⁺ system), member 8 (Slc7a8), mRNA.
NM_053445	Fads1	NP_445897		Rattus norvegicus fatty acid desaturase 1 (Fads1), mRNA.
NM_053465	Fut9	NP_445917		Rattus norvegicus fucosyltransferase 9 (alpha (1,3) fucosyltransferase) (Fut9), mRNA.
NM_053467	Tmp21	NP_445919		Rattus norvegicus integral membrane protein Tmp21-1 (p23) (Tmp21), mRNA.
NM_053472	Cox4b	NP_445924		Rattus norvegicus cytochrome c oxidase, subunit 4b (Cox4b), mRNA.
NM_053486	Kif3c	NP_445938		Rattus norvegicus kinesin family member 3C (Kif3c), mRNA.
NM_053494	Slc2a8	NP_445946		Rattus norvegicus solute carrier family 2, (facilitated glucose transporter) member 8 (Slc2a8), mRNA.
NM_053502	Abcg1	NP_445954		Rattus norvegicus ATP-binding cassette, sub-family G (WHITE), member 1 (Abcg1), mRNA.
NM_053565	Cish3	NP_446017		Rattus norvegicus cytokine inducible SH2-containing protein 3 (Cish3), mRNA.
NM_053578	Atp6k	NP_446030		Rattus norvegicus vacuolar proton-ATPase subunit M9.2 (Atp6k), mRNA.
NM_053589	Rab14	NP_446041		Rattus norvegicus GTPase Rab14 (Rab14), mRNA.
NM_053646	Asah2	NP_446098		Rattus norvegicus N-acylsphingosine amidohydrolase 2 (Asah2), mRNA.
NM_053714	Ank	NP_446166		Rattus norvegicus progressive ankylosis (Ank), mRNA.
NM_053722	Clasp2	NP_446174		Rattus norvegicus CLIP-associating protein 2 (Clasp2), mRNA.
NM_053770	Argbp2	NP_446222		Rattus norvegicus Arg/Abi-interacting protein ArgBP2 (Argbp2), mRNA.
NM_053794	Prkwnk1	NP_446246		Rattus norvegicus protein kinase, lysine deficient 1 (Prkwnk1), mRNA.
NM_053798	Sacm1l	NP_446250		Rattus norvegicus SAC1 (suppressor of actin mutations 1, homolog)-like (S. cerevisiae) (Sacm1l), mRNA.
NM_053863	Slc28a1	NP_446315		Rattus norvegicus solute carrier family 28 (sodium-coupled nucleoside transporter), member 1 (Slc28a1), mRNA.
NM_053886	Lman1	NP_446338		Rattus norvegicus lectin, mannose-binding, 1 (Lman1), mRNA.
NM_053891	Cdk5r	NP_446343		Rattus norvegicus cyclin-dependent kinase 5, regulatory subunit 1 (p35) (Cdk5r), mRNA.
NM_053952	Nup155	NP_446404		Rattus norvegicus nucleoporin 155kD (Nup155), mRNA.
NM_054000	Kcnb2	NP_446452		Rattus norvegicus potassium voltage gated channel, Shab-related subfamily, member 2 (Kcnb2), mRNA.
NM_057098	Tcea2	NP_476439		Rattus norvegicus transcription elongation factor A2 (Tcea2), mRNA.

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference		Description
NM_057132	Arha2	NP_476473	Rattus norvegicus physia ras-related homolog A2 (Arha2), mRNA.	
NM_057148	2-Sep	NP_476489	Rattus norvegicus septin 2 (Sept2), mRNA.	
NM_057186	Hadhsc	NP_476534	Rattus norvegicus L-3-hydroxyacyl-Coenzyme A dehydrogenase, short chain (Hadhsc), mRNA.	
NM_057210	Sv2a	NP_476558	Rattus norvegicus synaptic vesicle glycoprotein 2 a (Sv2a), mRNA.	
NM_080577	Npl4	NP_542144	Rattus norvegicus homolog of yeast nuclear protein localization 4 (Npl4), mRNA.	
S61973		AAB20211	Rattus sp. NMDA receptor glutamate-binding subunit mRNA, complete cds.	
S73608	AGR9	AAB31153	AGR9=G protein-coupled receptor [rats, aortic vascular smooth muscle cells, mRNA, 1601 nt].	
U07795	rap1B	AAA92787	Rattus norvegicus Rap1B mRNA, complete cds.	
U15408		AAA81005	Rattus norvegicus plasma membrane Ca ²⁺ -ATPase isoform 4 mRNA, complete cds and alternatively spliced variations.	
U21116		AAA96350	Rattus norvegicus rSec1B mRNA, complete cds.	
U31815	ROB2	AAA89157	Rattus norvegicus calcium channel alpha-1C subunit (ROB2) mRNA, partial cds.	
U39572		AAD10400	Rattus norvegicus phosphatidylinositol 4-kinase mRNA, complete cds.	
U40188	DN-7	AAC53201	Rattus norvegicus neuronal cell death related gene in neuron -7 (DN-7) mRNA, complete cds.	
U41183	GHRH	AAC53041	Rattus norvegicus placental pre-progrowth hormone-releasing hormone (GHRH) mRNA, complete cds.	
U41853	ORP150	AAB05672	Rattus norvegicus 150 kDa oxygen regulated protein (ORP150) mRNA, complete cds.	
U53927		AAC52813	Rattus norvegicus brain astroglial high-affinity cationic amino acid transporter RCAT2 mRNA, partial cds.	
U56261		AAA99825	Rattus norvegicus SNAP-25a mRNA, partial cds.	
U61772	NF2	AAC13318	Rattus norvegicus merlin (NF2) mRNA, partial cds.	
U67995		AAB39620	Rattus norvegicus stearyl-CoA desaturase 2 mRNA, partial cds.	
U76997		AAB19066	Rattus norvegicus insulin-regulated membrane aminopeptidase IRAP mRNA, complete cds.	
U77583	CK1aL	AAB19228	Rattus norvegicus casein kinase I alpha L (CK1aL) mRNA, complete cds.	
U78090		AAC34249	Rattus norvegicus potassium channel regulator 1 mRNA, complete cds.	
U78116	AZF5	AAB36788	Rattus norvegicus zinc finger protein 5 (AZF5) mRNA, partial cds.	
U90215		AAB49989	Rattus norvegicus polysialyltransferase mRNA, partial cds.	

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference	Description
X05472	ORF 3	CAA29033	Rat 2.4 kb repeat DNA right terminal region.
X53261		CAA37350	R.norvegicus mRNA for protein kinase A catalytic subunit.
X56747		CAA40069	Rat mRNA for fetal intestinal lactase-phlorizin hydrolase precursor, partial.
X60370		CAC16162	R.norvegicus mRNA for microtubule associated protein 1B.
X60790	PYBP2	CAA43203	Rat PYBP2 mRNA for pyrimidine binding protein 2.
X64600	tgnd41	CAA45884	R.norvegicus mRNA for the trans Golgi network specific integral membrane protein TGN41.
X80029	hem2	CAA56333	R.norvegicus Hem-2 mRNA.
X89963	TSP-4	CAA62002	R.norvegicus mRNA TSP-4 protein.
Y13336	DAD-1	CAA73780	Rattus norvegicus DAD-1 gene.
Y16774	Dri 27/ZnT4	CAA76372	Rattus norvegicus mRNA for Dri 27/ZnT4 protein, complete CDS.
Z18877		CAA79317	R.norvegicus mRNA for 2'5' oligoadenylate synthetase.
Z21935		CAA79929	R.norvegicus protein kinase rMNK2.
NM_023986	Temo	NP_076476	Rattus norvegicus Temo (Temo), mRNA.
RATTUS00016	mwgrat10K#6143	u10860	u10860_1 guanosine 5'-monophosphate synthetase - homo sapiens expression: heart strains: sprague_dawley wistar_kyoto gbp
RATTUS00092	mwgrat10K#6206	bc014875	bc014875_1 unknown protein for mgc:6920 - mus musculus expression: liver heart brain kidney strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS00129	mwgrat10K#6238	q9hcc0	non-biotin containing subunit of 3-methylcrotonyl-coa carboxylase ec 6.4.1.4 expression: heart kidney strains: shrsp wistar_kyoto trembl
RATTUS00221	mwgrat10K#6320	bc003290	bc003290_1 cyclin i - mus musculus expression: kidney brain heart strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS00223	mwgrat10K#6321	q9p110	pro1038 expression: liver heart kidney strains: shrsp sprague_dawley wistar_kyoto trembl
RATTUS00276	mwgrat10K#8728	q9qz87	oda-8s protein; kidney expression: brain heart strains: sprague_dawley wistar_kyoto trembl
RATTUS00284	mwgrat10K#6373	ak008492	ak008492_1 riken full-length enriched library, clone:2010300721 - mus musculus; heart kidney shrsp trembl o75319 pir1 ec 3.1.3.4! expression: brain strains: wistar_kyoto gbp

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Protein Product GeneBank		Description
	Gene Name or Manufacturer Probe Name	Accession Number or Manufacturer Sequence Reference	
RATTUS00285	mwgrat10K#6374	af411608	af411608_1 n4wbp5a nedd4 ww domain-binding protein 5a - mus-musculus expression: liver heart brain strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS00379	mwgrat10K#6453	q9gzuo	hypothetical 27.1 kda protein cdna flj12619 fis, clone nt2m4001682 expression: liver brain heart strains: sprague_dawley wistar_kyoto trembl
RATTUS00410	mwgrat10K#6481	bc006847	bc006847_1 niken cdna 0610013i17 gene - mus musculus expression: liver heart strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS00415	mwgrat10K#6485	q9wvd5	omithine transporter expression: liver heart kidney strains: shrsp sprague_dawley wistar_kyoto trembl
RATTUS00434	mwgrat10K#6501	q9h3n4	cisplatin resistance related protein cr9p expression: brain heart strains: shrsp sprague_dawley wistar_kyoto trembl
RATTUS00437	mwgrat10K#6503	bc014808	bc014808_1 proline rich protein expressed in brain - mus musculus expression: liver heart brain kidney strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS00451	mwgrat10K#6516	q9han2	pumilio 2; heart wistar_kyoto trembl q9erc7 expression: liver brain strains: shrsp sprague_dawley trembl
RATTUS00521	mwgrat10K#6575	ak009646	ak009646_1 niken full-length enriched library, clone:2310036d22 - mus musculus expression: liver heart brain strains: shrsp wistar_kyoto gbp
RATTUS00525	mwgrat10K#6579	af237619	af237619_1 dual specificity phosphatase ts-dsp2 - mus musculus expression: heart strains: shrsp wistar_kyoto gbp
RATTUS00526	mwgrat10K#6580	ak009743	ak009743_1 niken full-length enriched library, clone:2310042b03 - mus musculus expression: heart brain strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS00530	mwgrat10K#6584	q9nzj7	mitochondrial carrier homolog 1 isoform b expression: brain kidney strains: shrsp trembl
RATTUS00553	mwgrat10K#6606	q9h5j2	cdna: flj23389 fis, clone hep17027 expression: heart brain strains: sprague_dawley wistar_kyoto trembl
RATTUS00575	mwgrat10K#6624	q9jk95	p53 apoptosis-associated target expression: liver kidney heart strains: shrsp sprague_dawley wistar_kyoto trembl
RATTUS00704	mwgrat10K#6738	bc010856	bc010856_1 unknown protein for mgc:9160 - homo sapiens expression: brain strains: sprague_dawley wistar_kyoto gbp

Figure 23 12

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference		Description
RATTUS00794	mwgrat10K#6816	ak007469		ak007469_1 riken full-length enriched library, clone:1810013b01 - mus musculus expression: liver brain kidney strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS00848	mwgrat10K#6864	x61585		x61585_1 polynucleotide adenyltransferase - bos taurus expression: liver heart kidney strains: shrsp wistar_kyoto gbp
RATTUS00867	mwgrat10K#6879	o95205		zinc finger protein expression: brain strains: shrsp sprague_dawley trembl
RATTUS00868	mwgrat10K#6880	bc006778		bc006778_1 unknown protein for image:3589064 - mus musculus expression: brain strains: shrsp sprague_dawley wistar_kyoto g
ATTUS00870	mwgrat10K#6881	q83380		envelope protein expression: liver brain strains: shrsp sprague_dawley wistar_kyoto trembl
ATTUS00904	mwgrat10K#6910	q9p1s0		hdckb03p fragment expression: brain strains: shrsp wistar_kyoto trembl
ATTUS00937	mwgrat10K#6941	q9ulf5		kiaa1265 protein fragment expression: brain strains: sprague_dawley wistar_kyoto trembl
ATTUS01071	mwgrat10K#7054	bc003862		bc003862_1 transmembrane 9 superfamily member 2 - mus musculus expression: liver heart kidney brain strains: shrsp sprague_dawley wistar_kyoto gbp
ATTUS01093	mwgrat10K#7071	q9y6i2		embryonic lung protein expression: liver brain heart strains: shrsp sprague_dawley wistar_kyoto trembl
ATTUS01148	mwgrat10K#7121	l10426		l10426_1 er81 ets-related protein - mus musculus expression: brain strains: sprague_dawley wistar_kyoto gbp
ATTUS01170	mwgrat10K#7138	ak020910		ak020910_1 riken full-length enriched library, clone:a930030i01 - mus musculus expression: brain strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS01205	mwgrat10K#7167	ak006207		ak006207_1 riken full-length enriched library, clone:170002i06 - mus musculus expression: liver heart brain strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS01221	mwgrat10K#7181	aj278133		aj278133_1 erd2.2 putative kdel receptor - mus musculus expression: liver kidney brain strains: shrsp sprague_dawley wistar_kyo gbp
RATTUS01273	mwgrat10K#7225	caa03190		sequence 2 from patent wo9610636 expression: liver brain strains: sprague_dawley wistar_kyoto trembl
RATTUS01287	mwgrat10K#7238	ak011418		ak011418_1 riken full-length enriched library, clone:2610016f14 - mus musculus expression: brain strains: shrsp wistar_kyoto gbp
RATTUS01294	mwgrat10K#7245	q9nv17		cdna fj10651 fis, clone nt2p2005868 expression: brain strains: shrsp sprague_dawley wistar_kyoto trembl

Figure 23 13

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference	Description
RATTUS01392	mwgrat10K#7330	ak009373	ak009373_1 riken full-length enriched library, clone:2310015017 - mus musculus expression: liver brain strains: sprague_dawley wistar_kyoto gbp
RATTUS01404	mwgrat10K#7342	m59288	m59288_1 ferrochelatase - mus musculus expression: liver brain strains: shrsp wistar_kyoto gbp
RATTUS01416	mwgrat10K#7352	af212995	af212995_1 cul4b cullin cul4b - homo sapiens expression: liver strains: wistar_kyoto gbp
RATTUS01422	mwgrat10K#7358	ak005698	ak005698_1 riken full-length enriched library, clone:1700007d05 - mus musculus expression: liver heart strains: sprague_dawley wistar_kyoto gbp
RATTUS01478	mwgrat10K#7409	cab69424	sequence 13 from patent wo9826065 fragment expression: liver brain strains: shrsp sprague_dawley wistar_kyoto trembl
RATTUS01526	mwgrat10K#7452	q9wuz9	nucleoside diphosphatase er-udpase expression: liver kidney strains: wistar_kyoto trembl
RATTUS01538	mwgrat10K#7464	bc012401	bc012401_1 unknown protein for mgc:11724 - mus musculus expression: liver brain strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS01590	mwgrat10K#7512	q9h9h1	cdna flj12756 fis, clone n12rp2001295, weakly zinc/cadmium resistance protein expression: liver brain strains: sprague_dawley wistar_kyoto trembl
RATTUS01595	mwgrat10K#7517	bc003454	bc003454_1 riken cdna 1110021n07 gene - mus musculus expression: kidney heart strains: sprague_dawley wistar_kyoto gbp
RATTUS01656	mwgrat10K#7570	q9jk31	atfa-associated factor expression: heart kidney brain strains: shrsp sprague_dawley wistar_kyoto trembl
RATTUS01669	mwgrat10K#7583	bc006941	bc006941_1 sphingosine kinase 2 - mus musculus expression: kidney strains: shrsp wistar_kyoto gbp
RATTUS01679	mwgrat10K#7592	ak008666	ak008666_1 riken full-length enriched library, clone:2210008a03 - mus musculus expression: kidney strains: shrsp wistar_kyoto gbp
RATTUS01713	mwgrat10K#7622	q9nqq7	ba394o2.1 cgi-15 protein expression: brain heart kidney strains: shrsp sprague_dawley wistar_kyoto trembl
RATTUS01762	mwgrat10K#7667	q9h5w6	cdna: flj22937 fis, clone kat07950 expression: liver brain kidney strains: shrsp sprague_dawley wistar_kyoto trembl
RATTUS01834	mwgrat10K#9859	q9jmf6	fragment expression: kidney brain strains: shrsp wistar_kyoto trembl
RATTUS01846	mwgrat10K#7749	ax118871	ax118871_1 homo sapiens sequence 35 from patent wo0129221 unnamed protein product expression: kidney strains: shrsp wistar_kyoto gbp

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank		Description
		Accession Number or Manufacturer Sequence Reference	Reference	
RATTUS01882	mwgrat10K#7785	bc003936	bc003936	bc003936_1 unknown protein for mgc:7327 - mus musculus expression: brain strains: shrsp sprague_dawley gbp
RATTUS02017	mwgrat10K#7912	q9qxm0		alpha/beta hydrolase-2 fold protein expression: liver strains: shrsp sprague_dawley trembl
RATTUS02037	mwgrat10K#7932	bc011313	bc011313	bc011313_1 unknown protein for mgc:19443 - mus musculus expression: liver brain strains: shrsp sprague_dawley gbp
RATTUS02056	mwgrat10K#7949	q9hc79		serine kinase expression: liver brain strains: shrsp trembl
RATTUS02104	mwgrat10K#7991	aj277386	aj277386	aj277386_1 p14 late endosomal/lysosomal mp1 interacting protein - mus musculus expression: brain heart strains: shrsp sprague_dawley gbp
RATTUS02120	mwgrat10K#8006	af077188	af077188	af077188_1 cul4a cullin 4a - homo sapiens expression: liver brain kidney strains: shrsp sprague_dawley gbp
RATTUS02168	mwgrat10K#8052	ak011126	ak011126	ak011126_1 riken full-length enriched library, clone:2600001b17 - mus musculus expression: brain heart strains: shrsp sprague_dawley gbp
RATTUS02183	mwgrat10K#8067	o00495	o00495	26s proteasome subunit 9 expression: heart brain strains: shrsp sprague_dawley trembl
RATTUS02235	mwgrat10K#8116	x53247	x53247	x53247_1 member of ras gene family en-7 protein - mus musculus expression: kidney brain strains: sprague_dawley wistar_kyoto gbp
RATTUS02251	mwgrat10K#8130	cac24865	cac24865	sequence 3 from patent wo0100831 expression: liver heart brain kidney strains: shrsp sprague_dawley wistar_kyoto trembl
RATTUS02282	mwgrat10K#8152	af104398	af104398	af104398_1 comichon - homo sapiens expression: liver brain heart strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS02294	mwgrat10K#8162	ak014369	ak014369	ak014369_1 riken full-length enriched library, clone:3300002i08 - mus musculus expression: brain heart strains: sprague_dawley wistar_kyoto gbp
RATTUS02298	mwgrat10K#8166	ak015239	ak015239	ak015239_1 riken full-length enriched library, clone:4930429h24 - mus musculus expression: heart brain strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS02333	mwgrat10K#8195	q9ugg6	q9ugg6	39k3 protein expression: heart brain strains: sprague_dawley wistar_kyoto trembl
RATTUS02339	mwgrat10K#8200	q9jkw0	q9jkw0	atf-6 interacting protein-1 expression: liver kidney brain strains: shrsp sprague_dawley wistar_kyoto trembl
RATTUS02445	mwgrat10K#8294			expression: liver brain strains: shrsp sprague_dawley wistar_kyoto mwg own new gene sequence

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference		Description
RATTUS02490	mwgrat10K#8335			expression: kidney brain strains: shrsp wistar_kyoto mwg own new gene sequence
RATTUS02564	mwgrat10K#8395	q9h871		cdna fj13910 fis, clone y79aa1000131; trembl q9h6w5 cdna: fj21795 hep00531 expression: liver strains: shrsp trembl
RATTUS02579	mwgrat10K#8408	q9hbm3		dipeptidyl peptidase 8 fragment expression: liver strains: shrsp trembl
RATTUS02653	mwgrat10K#8468	bc003862		bc003862_1 transmembrane 9 superfamily member 2 - mus musculus expression: liver heart kidney brain strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS02662	mwgrat10K#8476	q14667		kiaa0100 protein expression: liver kidney heart brain strains: shrsp sprague_dawley wistar_kyoto trembl
RATTUS02688	mwgrat10K#8499	q9nsl9		hypothetical 22.2 kda protein fragment expression: brain strains: wistar_kyoto trembl
RATTUS02717	mwgrat10K#8524	af295358		af295358_1 unknown - mus musculus expression: brain strains: wistar_kyoto gbp
RATTUS02731	mwgrat10K#86250	ak017729		ak017729_1 riken full-length enriched library, clone:5730494n06 - mus musculus; wistar_kyoto trembl cac25005 sequence 49 from patent wo0100806 precursor expression: brain strains: shrsp gbp
RATTUS02792	mwgrat10K#8583	u59321		u59321_1 p72 dead-box protein p72 - homo sapiens expression: heart strains: wistar_kyoto gbp
RATTUS02814	mwgrat10K#8598	u58135		u58135_1 poly a polymerase v - mus musculus; heart trembl q9r1r3 testis-specific expression: liver kidney brain strains: shrsp wistar_kyoto gbp
RATTUS02918	mwgrat10K#8683	q92544		myeloblast kiaa0255 expression: liver strains: wistar_kyoto trembl
RATTUS02943	mwgrat10K#8699	q9h2j3		npd016 expression: liver strains: wistar_kyoto trembl
RATTUS02971	mwgrat10K#8723	bc002137		bc002137_1 cg13018 gene product - mus musculus expression: liver strains: wistar_kyoto gbp
RATTUS03203	mwgrat10K#8914	q9y6a4		transcription factor iib; trembl p70212 hypothetical 22.7 kda protein expression: liver brain strains: sprague_dawley wistar_kyoto trembl
RATTUS03223	mwgrat10K#8928	q9ji10		lmbr1 long form expression: brain strains: sprague_dawley trembl
RATTUS03260	mwgrat10K#9233	q9y449		traf4-associated factor 2 fragment shrsp expression: brain strains: sprague_dawley trembl
RATTUS03288	mwgrat10K#8981	o15194		ya22 protein hya22; kidney wistar_kyoto expression: brain strains: sprague_dawley trembl
RATTUS03326	mwgrat10K#9012	bc007154		bc007154_1 unknown protein for image:3485091 - mus musculus expression: brain strains: sprague_dawley gbp

Figure 23

Nucleotide GenBank		Protein Product	
Accession Number or Manufacturer	Gene Name or Manufacturer	GeneBank Accession Number or Manufacturer	Description
Sequence ID	Probe Name	Sequence Reference	
RATTUS03387	mwgrat10K#9060	ak003050	ak003050_1 riken full-length enriched library, clone:0710008m05 - mus musculus expression: heart strains: sprague_dawley gbp
RATTUS03472	mwgrat10K#9126	u62325	u62325_1 hfe65l fe65-like protein - homo sapiens expression: heart strains: sprague_dawley gbp
RATTUS03489	mwgrat10K#9139	q9nt50	hypothetical 28.7 kda protein fragment expression: liver strains: sprague_dawley trembl
RATTUS03495	mwgrat10K#9144	q9wuz9	nucleoside diphosphatase er-udpase expression: liver strains: sprague_dawley trembl
RATTUS03510	mwgrat10K#9158	o75071	kiaa0494 protein expression: liver strains: sprague_dawley trembl
RATTUS03523	mwgrat10K#9169	al356440	al356440_1 dj299f11.1 dj299f11.1 d.melanogaster protein cg14464 - homo sapiens expression: liver strains: sprague_dawley gbp
IATTUS03577	mwgrat10K#9213	o35963	rab33b expression: brain strains: shrsp trembl
IATTUS03642	mwgrat10K#9265	cac09285	sequence 1 from patent wo9814562 fragment expression: brain strains: shrsp trembl
IATTUS03669	mwgrat10K#9288	bc009494	bc009494_1 unknown protein for mgc:16403 - homo sapiens expression: brain strains: shrsp gbp
IATTUS03700	mwgrat10K#9318	q9nql3	ba11d8.1 yeast ubiquitin conjugating enzyme ubc6 homolog fragment expression: brain strains: shrsp trembl
IATTUS03772	mwgrat10K#6932	u95498	u95498_1 af1q - mus musculus expression: brain strains: shrsp sprague_dawley wistar_kyoto gbp
IATTUS03793	mwgrat10K#9398	o75061	kiaa0473 protein expression: brain strains: shrsp trembl
IATTUS03819	mwgrat10K#9421	o75061	kiaa0473 protein expression: brain strains: shrsp trembl
IATTUS03860	mwgrat10K#9455	q9y4c4	masl1 protein expression: heart strains: shrsp trembl
IATTUS03893	mwgrat10K#9483	q9jjr5	c11orf17 protein expression: heart strains: shrsp trembl
RATTUS03951	mwgrat10K#9525	o00495	26s proteasome subunit 9 expression: heart strains: shrsp trembl
RATTUS03971	mwgrat10K#9537	x61585	x61585_1 polynucleotide adenyltransferase - bos taurus expression: liver heart kidney strains: shrsp wistar_kyoto gbp
RATTUS04030	mwgrat10K#9583	bc002867	bc002867_1 unknown protein for image:3940519 - homo sapiens expression: kidney strains: shrsp gbp
RATTUS04036	mwgrat10K#9589	bc013036	bc013036_1 unknown protein for mgc:4734 - homo sapiens expression: kidney strains: shrsp gbp
RATTUS04052	mwgrat10K#9603	q9h4p0	clone cdabp0035 sequence expression: kidney strains: shrsp trembl
RATTUS04155	mwgrat10K#9696		expression: heart strains: sprague_dawley mwg own new gene sequence

Figure 23

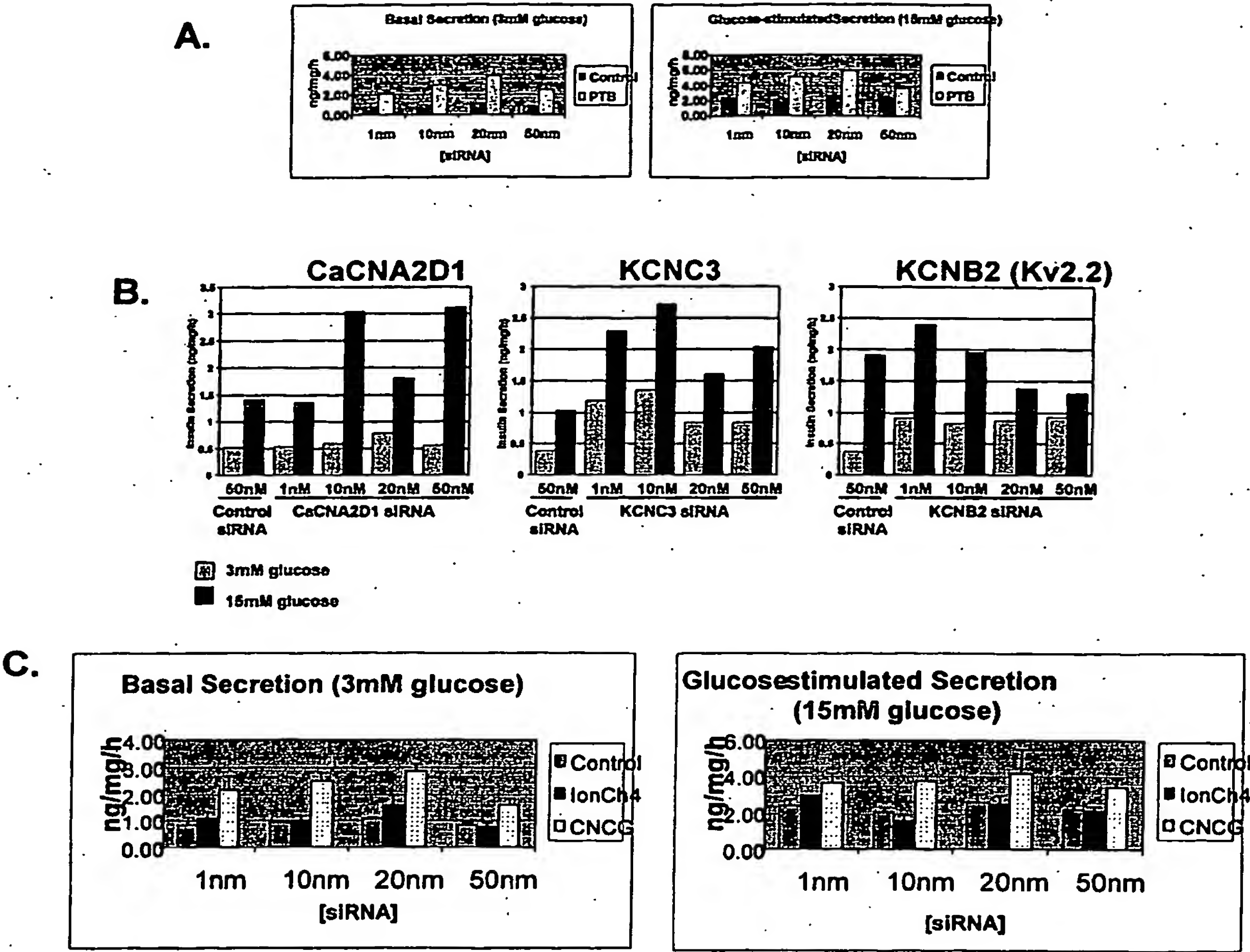


Figure 24

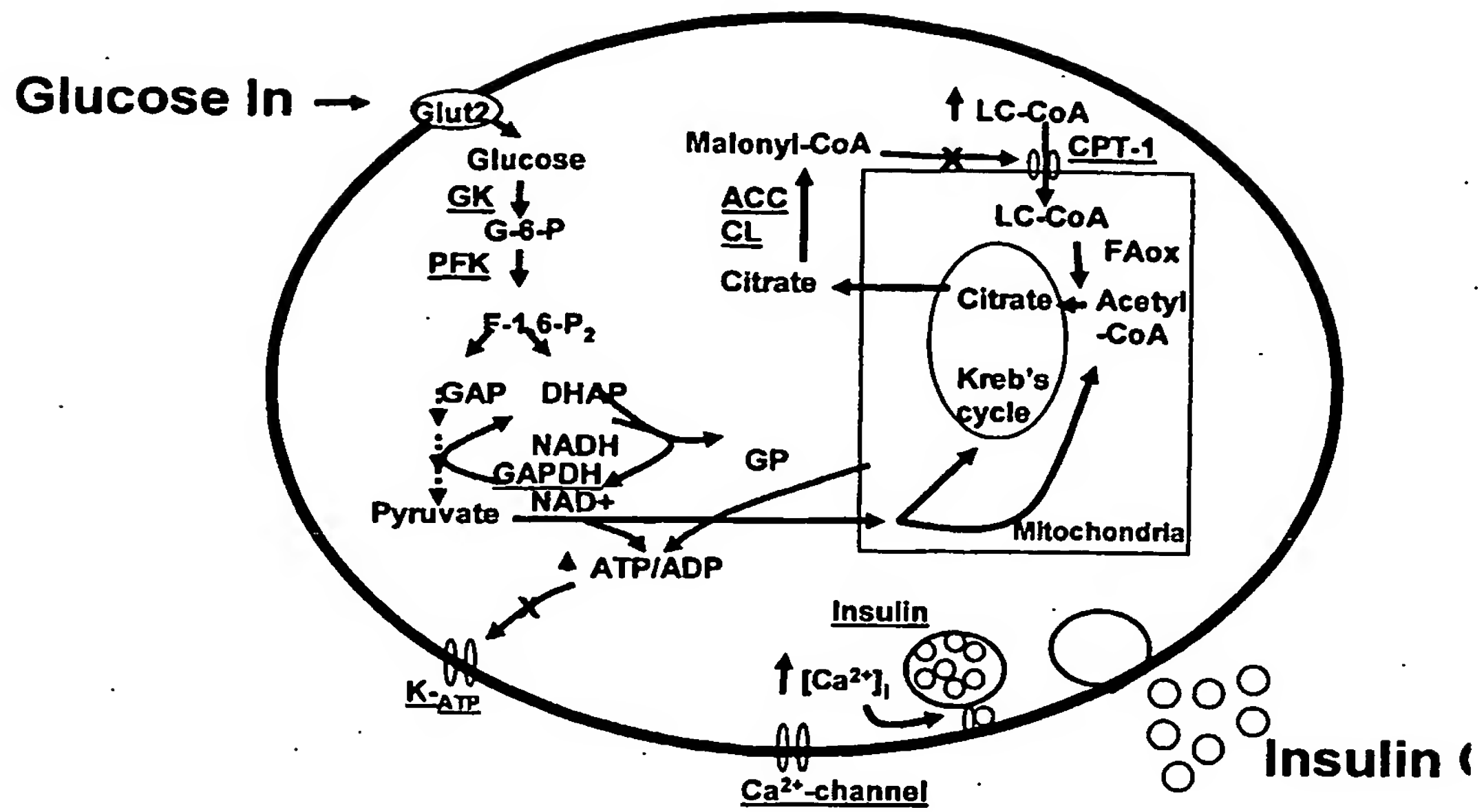


Figure 25

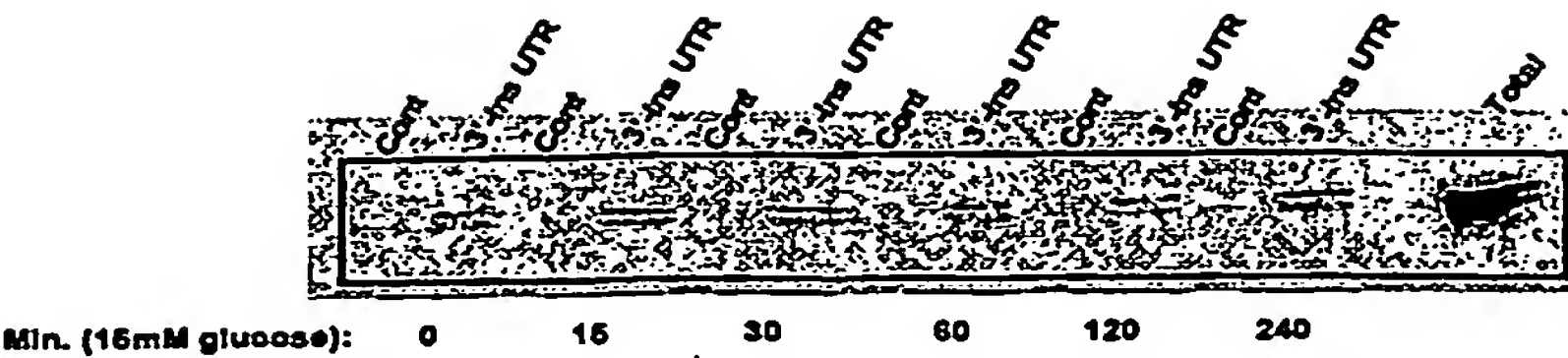


Fig. 26A

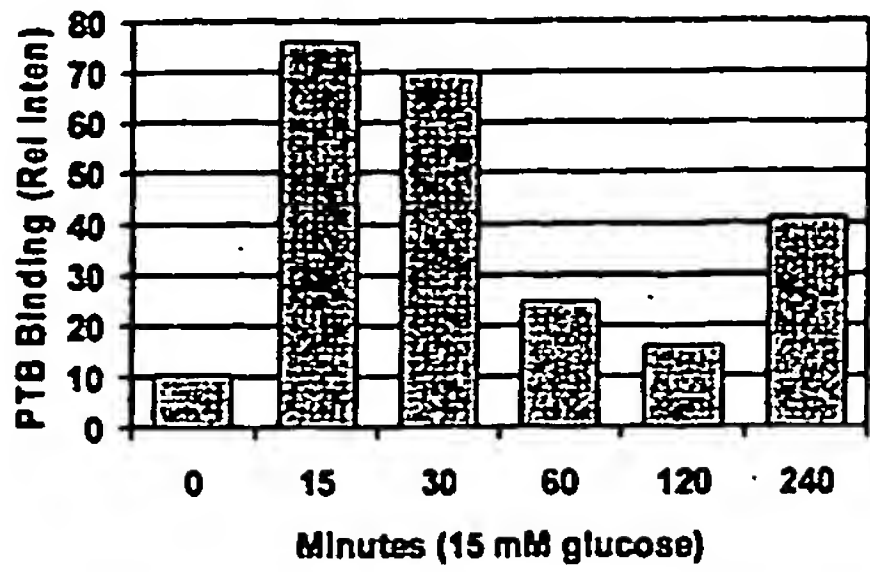


Fig. 26B

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product	
		GeneBank	Accession Number or Manufacturer
		Sequence	Reference
NM_031081	Pdpk1	NP_112343	Rattus norvegicus 3-phosphoinositide dependent protein kinase-1 (Pdpk1), mRNA.
NM_022799	Nucks	NP_073636	Rattus norvegicus nuclear ubiquitous casein kinase 2 (Nucks), mRNA.
NM_019248	Ntrk3	NP_062121	Rattus norvegicus neural receptor protein-tyrosine kinase (Ntrk3), mRNA.
NM_053585	Madd	NP_446037	Rattus norvegicus MAP-kinase activating death domain (Madd), mRNA.
NM_022627	Prkab2	NP_072149	Rattus norvegicus AMP-activated protein kinase beta-2 regulatory subunit (Prkab2), mRNA.
NM_012727	Camk4	NP_036859	Rattus norvegicus calcium/calmodulin-dependent protein kinase IV (Camk4), mRNA.
NM_012713	Prkcb1	NP_036845	Rattus norvegicus protein kinase C, beta 1 (Prkcb1), mRNA.
NM_013218	Ak3	NP_037350	Rattus norvegicus adenylyate kinase 3 (Ak3), mRNA.
NM_017246	Map2k5	NP_058942	Rattus norvegicus mitogen activated protein kinase kinase 5 (Map2k5), mRNA.
AB040531	RH2K	BAA96496	Rattus norvegicus mRNA for RH2K2, complete cds.
U39572		AAD10400	Rattus norvegicus phosphatidylinositol 4-kinase mRNA, complete cds.
NM_012565	Gck	NP_036697	Rattus norvegicus glucokinase (Gck), mRNA.
NM_032080	Gsk3b	NP_114469	Rattus norvegicus glycogen synthase kinase 3 beta (Gsk3b), mRNA.
NM_080584	Phkg2	NP_542151	Rattus norvegicus phosphorylase kinase, gamma 2 (testis) (Phkg2), mRNA.

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product	
		GeneBank	Accession Number or Manufacturer
		Sequence	Reference
NM_012637	Ptpn1	NP_036769	Rattus norvegicus protein tyrosine phosphatase, non-receptor type 1 (Ptpn1), mRNA.
NM_019253	Ptpn5	NP_062126	Rattus norvegicus protein tyrosine phosphatase, non-receptor type 5 (Ptpn5), mRNA.
NM_010214	lnn5d	AF082404	Rattus norvegicus insulin-like growth factor receptor 5 (lnn5d), mRNA.

Figure 27

NM_013080	Ptpz1	NP_037212	Rattus norvegicus protein tyrosine phosphatase, receptor-type, Z polypeptide 1 (Ptpz1), mRNA.
NM_053883	Dusp6	NP_446335	Rattus norvegicus dual specificity phosphatase 6 (Dusp6), mRNA.
NM_057115	Ptpn12	NP_476456	Rattus norvegicus protein tyrosine phosphatase, non-receptor type 12 (Ptpn12), mRNA.
NM_013098	G6pc	NP_037230	Rattus norvegicus glucose-6-phosphatase, catalytic (G6pc), mRNA.
AB040531	RH2K	BAA96496	Rattus norvegicus mRNA for RH2K2, complete cds.

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference	Ion Channels/Regulators of Ion channels
AF013598		AAB69328	Rattus norvegicus proton gated cation channel DRASIC mRNA, complete cds.
NM_031548	Scnn1a	NP_113736	Rattus norvegicus sodium channel, nonvoltage-gated, type I, alpha polypeptide (Scnn1a), mRNA.
NM_012919	Cacna2d1	NP_037051	Rattus norvegicus calcium channel, voltage-dependent, alpha2/delta subunit 1 (Cacna2d1), mRNA.
NM_013192	Kcnj6	NP_037324	Rattus norvegicus potassium inwardly-rectifying channel, subfamily J, member 6 (Kcnj6), mRNA.
U78090		AAC34249	Rattus norvegicus potassium channel regulator 1 mRNA, complete cds.
AF290212		AAG35186	Rattus norvegicus calcium channel alpha-1-G subunit mRNA, complete cds.
NM_053497	Cnng	NP_445949	Rattus norvegicus cyclic nucleotide-gated cation channel (Cnng), mRNA.
Y14635		CAA74979	Rattus norvegicus mRNA for proton-gated cation channels modulatory subunit
AJ003065		CAA05839	Rattus norvegicus mRNA for Kir2.4, inwardly rectifying potassium channel.
NM_031828	Kcnma1	NP_114016	Rattus norvegicus potassium large conductance calcium-activated channel, subfamily M, alpha member 1 (Kcnma1), mRNA.
NM_054000	Kcnb2	NP_446452	Rattus norvegicus potassium voltage gated channel, Shab-related subfamily, member 2 (Kcnb2), mRNA.
NM_021853	Slack	NP_068625	Rattus norvegicus potassium channel subunit (Slack) (Slack), mRNA.
NM_019313	Kcnn1	NP_062186	Rattus norvegicus potassium intermediate/small conductance calcium-activated channel, subfamily N, member 1 (Kcnn1), mRNA.
NM_013125	Scn5a	NP_037257	Rattus norvegicus sodium channel, voltage-gated, type V, alpha polypeptide (Scn5a), mRNA.
AJ309926	asic 1b	CAC44267	Rattus norvegicus mRNA for ion channel (asic 1b gene).
NM_053806	Kcnk6	NP_446258	Rattus norvegicus potassium channel, subfamily K, member 6 (TWIK-2) (Kcnk6), mRNA.

Figure 27

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product		Transporters
		GeneBank	Accession Number or Manufacturer Sequence Reference	
AB023645	ccc6		BAB40440	Rattus norvegicus ccc6 mRNA for cation-chloride cotransporter 6, complete cds.
AF239262	oatpE		AAK30042	Rattus norvegicus organic anion transporter E (oatpE) mRNA, complete cds.
AF273024			AAF81796	Rattus norvegicus amino acid system A transporter mRNA, complete cds.
AB000280	PHT1		BAA20489	Rattus norvegicus mRNA for peptide/histidine transporter, complete cds.
NM_017348	CHOT1		NP_059044	Rattus norvegicus choline transporter (CHOT1), mRNA
AF268030			AAF72546	Rattus norvegicus copper transporter 1 mRNA, complete cds.
NM_022866	Slc13a3		NP_074057	Rattus norvegicus solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 (Slc13a3), mRNA
AJ315643	Hmit		CAC51117	Rattus norvegicus mRNA for proton myo-inositol symporter (Hmit gene).
U55816	KCC2		AAC52635	Rattus norvegicus furosemide-sensitive K-Cl cotransporter (KCC2) mRNA, complete cds.
NM_013034	Slc6a4		NP_037166	Rattus norvegicus solute carrier family 6, member 4 (Slc6a4), mRNA.
NM_012879	Slc2a2		NP_037011	Rattus norvegicus solute carrier family 2, member 2 (Slc2a2), mRNA.

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product		Proteases/Peptidases
		GeneBank	Accession Number or Manufacturer Sequence Reference	
NM_012836	Cpd		NP_036968	Rattus norvegicus carboxypeptidase D (Cpd), mRNA.
AF202454			AAF17575	Rattus norvegicus testis ubiquitin specific processing protease mRNA, complete cds.
NM_017145	Mcpt1		NP_058841	Rattus norvegicus mast cell protease 1 (Mcpt1), mRNA.

Figure 27

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank	
		Accession Number or Manufacturer	Sequence
		Reference	Receptors
NM_019246	Pcsk7	NP_062119	Rattus norvegicus proprotein convertase subtilisin / kexin, type 7 (Pcsk7), mRNA
NM_017138	Lamr1	NP_058834	Rattus norvegicus laminin receptor 1 (67kD, ribosomal protein SA) (Lamr1), mRNA
NM_012637	Ptpn1	NP_036769	Rattus norvegicus protein tyrosine phosphatase, non-receptor type 1 (Ptpn1), mRNA
NM_016996	Casr	NP_058692	Rattus norvegicus calcium-sensing receptor (Casr), mRNA
NM_019248	Ntrk3	NP_062121	Rattus norvegicus neural receptor protein-tyrosine kinase (Ntrk3), mRNA
U47331		AAA88788	Rattus norvegicus metabotropic glutamate receptor 4b mRNA, complete cds.
NM_019328	Nr4a2	NP_062201	Rattus norvegicus nuclear receptor subfamily 4, group A, member 2 (Nr4a2), mRNA
NM_012869	Npy5r	NP_037001	Rattus norvegicus neuropeptide Y receptor Y5 (Npy5r), mRNA
NM_019253	Ptpn5	NP_062126	Rattus norvegicus protein tyrosine phosphatase, non-receptor type 5 (Ptpn5), mRNA
NM_052807	Igf1r	NP_434694	Rattus norvegicus insulin-like growth factor 1 receptor (Igf1r), mRNA
NM_013080	Ptpnz1	NP_037212	Rattus norvegicus protein tyrosine phosphatase, receptor-type, Z polypeptide 1 (Ptpnz1), mRNA
NM_031628	Nr4a3	NP_113816	Rattus norvegicus nuclear receptor subfamily 4, group A, member 3 (Nr4a3), transcript variant 1, mRNA
NM_017011	Gm1	NP_058707	Rattus norvegicus glutamate receptor, metabotropic 1 (Gm1), mRNA
NM_013091	Tnfrsf1a	NP_037223	Rattus norvegicus tumor necrosis factor receptor superfamily, member 1a (Tnfrsf1a), mRNA
NM_017071	Insr	NP_058767	Rattus norvegicus insulin receptor (Insr), mRNA
AF161588	Gabarap	AAD47643	Rattus norvegicus GABA-A receptor-associated protein (Gabarap) mRNA, complete cds.
NM_057115	Ptpn12	NP_476456	Rattus norvegicus protein tyrosine phosphatase, non-receptor type 12 (Ptpn12), mRNA
NM_012528	Chmb1	NP_036660	Rattus norvegicus cholinergic receptor, nicotinic, beta polypeptide 1 (Chmb1), mRNA
AF010293	U131	AAB66333	Rattus norvegicus olfactory receptor (U131) mRNA, complete cds.
NM_012957	Gabrb2	NP_037089	Rattus norvegicus gamma-aminobutyric acid receptor, subunit beta 2 (Gabrb2), mRNA
NM_012959	Gfra1	NP_037091	Rattus norvegicus glial cell line derived neurotrophic factor family receptor alpha 1 (Gfra1), mRNA
NM_053296	Glr1b	NP_445748	Rattus norvegicus glycine receptor, beta subunit (Glr1b), mRNA
AF205193		AAF19028	Rattus norvegicus glutamate receptor interacting protein 2 mRNA, complete cds.
Z23272		CAA80810	R.norvegicus PACAP receptor, hip-hop1 splice variant, complete CDS.
AF230645		AAF36975	Rattus norvegicus testis-type galactosyl receptor mRNA, complete cds.

Figure 27

NM_012896	Adora3	NP_037028	Rattus norvegicus adenosine A3 receptor (Adora3), mRNA.
NM_024146	Fgfr1	NP_077060	Rattus norvegicus Fibroblast growth factor receptor 1 (Fgfr1), mRNA.
NM_022186	Nrbf2	NP_071522	Rattus norvegicus nuclear receptor binding factor 2 (Nrbf2), mRNA.
U22830		AAA91303	Rattus norvegicus P2Y purinoceptor mRNA, complete cds.
NM_021745	Nr1h4	NP_068513	Rattus norvegicus nuclear receptor subfamily 1, group H, member 4 (Nr1h4), mRNA.
NM_013124	Pparg	NP_037256	Rattus norvegicus peroxisome proliferator activated receptor, gamma (Pparg), mRNA.
AJ011370	5-HT4	CAA09599	Rattus norvegicus mRNA for serotonin 4 receptor, splice variant r5-HT4(e).
AF016387	RXRgamma	AAD01591	Rattus norvegicus retinoid X receptor gamma (RXRgamma) mRNA, partial cds.
NM_022212	Insr	NP_071548	Rattus norvegicus insulin receptor-related receptor (Insr), mRNA.

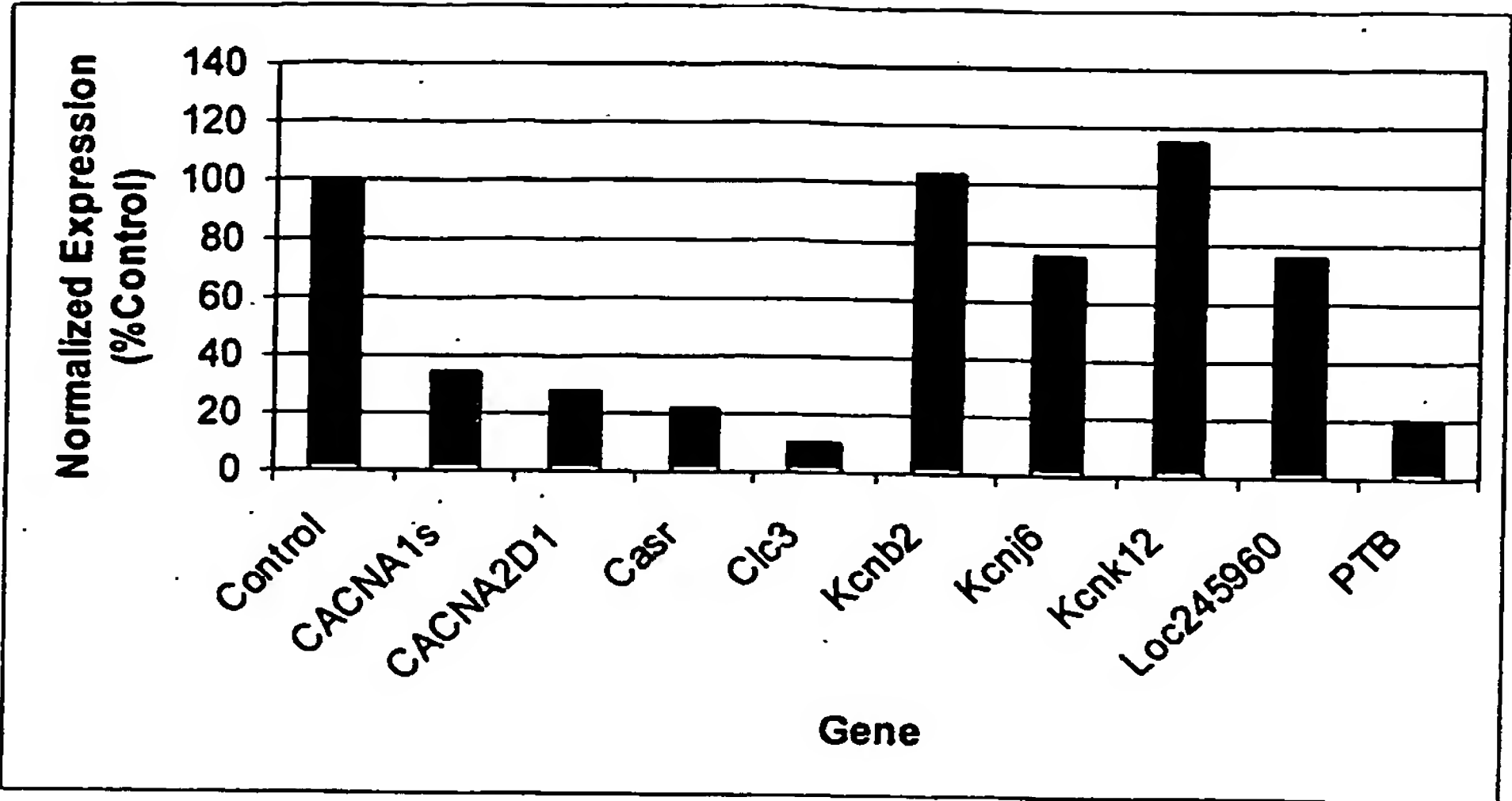
Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product		Transferases
		GeneBank	Accession Number	
		or Manufacturer	Sequence Reference	
NM_022635	Cml4		NP_072157	Rattus norvegicus putative N-acetyltransferase Camello 4 (Cml4), mRNA.
NM_022280	Lrat		NP_071616	Rattus norvegicus lecithin-retinol acyltransferase (Lrat), mRNA.
X14211			CAA32428	Rat mRNA for phenylethanolamine-N-methyltransferase (PNMT).
NM_031635	Fut2		NP_113823	Rattus norvegicus fucosyltransferase 2 (Fut2), mRNA.
NM_013029	Siat8c		NP_037161	Rattus norvegicus sialyltransferase 8 C (Siat8c), mRNA.
NM_031980	Ugt2b12		NP_114186	Rattus norvegicus UDP-glucuronosyltransferase (Ugt2b12), mRNA.
NM_022219	Fut4		NP_071555	Rattus norvegicus alpha 1,3-fucosyltransferase Fuc-T (similar to mouse Fut4) (Fut4), mRNA.
NM_053437	Dgat1		NP_445889	Rattus norvegicus diacylglycerol O-acyltransferase 1 (Dgat1), mRNA.

Figure 27

Nucleotide GenBank		Protein Product		Transcription Factors
Accession Number or Manufacturer	Gene Name or Manufacturer	GeneBank Accesssion Number or Manufacturer	Sequence Reference	
Sequence ID	Probe Name			
NM_012747	Stat3	NP_036879	Rattus norvegicus signal transducer and activator of transcription 3 (Stat3), mRNA.	
NM_017339	Isl1	NP_059035	Rattus norvegicus ISL 1 transcription factor, LIM/homeodomain 1 (Isl1), mRNA.	
NM_021770	Olig1	NP_068538	Rattus norvegicus oligodendrocyte transcription factor 1 (Olig1), mRNA.	

Figure 27

A.



B.

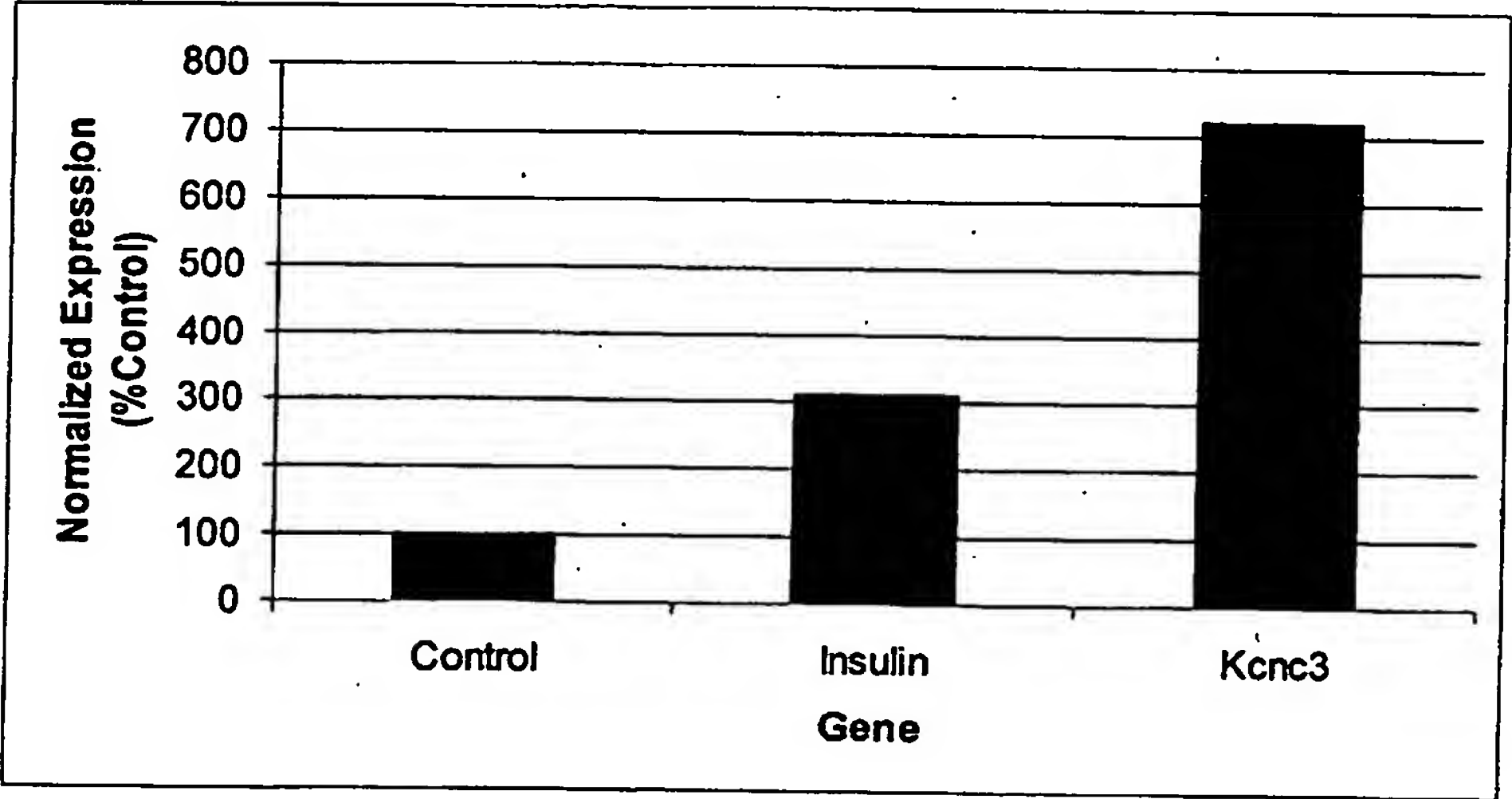


Figure 28